

## SEQUENCE LISTING A

&lt;110&gt; CANON KABUSHIKI KAISHA

&lt;120&gt; Probe set and method for identifying HLA allele

&lt;130&gt; g10003828A

&lt;150&gt; JP2003-430553

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&lt;160&gt; 637

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 1

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&lt;210&gt; 2

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 2

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&lt;210&gt; 3

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 3

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 <211> 546  
 <212> DNA  
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<210> 6  
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 <212> DNA  
 <213> Homo sapiens

<400> 6  
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<210> 7  
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 <212> DNA  
 <213> Homo sapiens

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<400> 7
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gcacgg 546

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<210> 8  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

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<400> 8
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<210> 9  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

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<400> 9
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<210> 10  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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gcacgg 546

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<210> 11  
 <211> 875  
 <212> DNA  
 <213> Homo sapiens

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<400> 11
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<210> 12  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 12

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gcacgg 546

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&lt;210&gt; 13

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 13

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&lt;210&gt; 14

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 14

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&lt;210&gt; 15

&lt;211&gt; 822

&lt;212&gt; DNA

<213> Homo sapiens

<400> 15

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<210> 16

<211> 822

<212> DNA

<213> Homo sapiens

<400> 16

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tccagaagtg ggcggctgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780
tgcagcatga gggtttgccc aagccctca cctgagatg gg 822

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<210> 17

<211> 822

<212> DNA

<213> Homo sapiens

<400> 17

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&lt;400&gt; 26

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&lt;210&gt; 27

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 27

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&lt;211&gt; 897

&lt;212&gt; DNA

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 <213> Homo sapiens

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<213> Homo sapiens

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<210> 36  
<211> 546  
<212> DNA  
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gcacgg 546

<210> 37  
<211> 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 37

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agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

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&lt;210&gt; 38

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 38

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&lt;210&gt; 39

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 39

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 agaccacaa gcacaagtgg gaggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
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 gcacgg 546

<210> 41  
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 <212> DNA  
 <213> Homo sapiens

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 gcgacgtggg gtcggactgg cgcttctcc gcgggtacca ccagtacgcc tacgacggca 360  
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 agaccacaa gcacaagtgg gaggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
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<210> 42  
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 <212> DNA  
 <213> Homo sapiens

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 gagccccgt tcatcgagt gggctacgtg gacgacacgc agttcgtcg gttcgacgc 180  
 gacgccgca gccagaggat ggagccgcg gcgcgtgga tagagcagga ggtccggag 240  
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 <212> DNA  
 <213> Homo sapiens

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<210> 44  
 <211> 546  
 <212> DNA  
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 gcacgg 546

<210> 45  
 <211> 546  
 <212> DNA  
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<400> 46

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 <213> Homo sapiens

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<210> 49  
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&lt;213&gt; Homo sapiens

&lt;400&gt; 49

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&lt;210&gt; 50

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 51

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 51

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gcacgg 546
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&lt;210&gt; 52

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 52

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gcacgg 546

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&lt;210&gt; 53

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

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gcacgg 546

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&lt;210&gt; 54

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

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gcacgg 546

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&lt;210&gt; 55

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 55

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<210> 62  
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 <212> DNA  
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&lt;210&gt; 63

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 63

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gcacgg 546

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&lt;210&gt; 64

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 64

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gcacgg 546

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&lt;210&gt; 65

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 65

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 <212> DNA  
 <213> Homo sapiens

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 tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atggggag 897

<210> 71  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 71  
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggtccg gagtattggg 180  
 acggggagac acggaagtg aaggccact cacagactca ccagtggtgac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac cctccagagg atgtatggct 300  
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 agaccaccaa gcacaagtgg gaggcgcccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 72  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 72  
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 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgcccg ggatagagca ggagggtccg gattattggg 180  
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 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacggacgc ccccaaacg catatgactc accacgtgt ctctgacct gaagccaccc 600  
 tgaggtgtg ggcctgagc ttctacctg cgagatcac actgacctg cagcgggatg 660  
 gggaggacca gaccaggac acggagctcg tggagaccag gcctgcagg gatggaacct 720  
 tccagaagtg ggcggtgtg gtggtgcctt ctggacagga gcagagatac acctgccatg 780  
 tgcagcatga gggtttgccc aagccctca cctgagatg gg 822

<210> 73  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 73  
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 gcttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgcccg ggatagagca ggagggtccg gattattggg 180  
 acggggagac acggaagtg aagggccact cacagactca ccgagtggac ctggggaccc 240  
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 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagttgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 74  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 74  
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 cgcggggagc ccgcttcat cgctgggc tacgtggac acacgcagtt cgtgcggtc 180  
 gacagcgac cgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
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 gcctacgac gcaaggatta catgccctg aacgaggacc tgcgtcttg gaccgcggc 480  
 gacatggcgg ctcatgac caagcgcaag tgggaggcgg cccatgaggc ggagcagttg 540  
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 ggggatggaa ccttcagaa gtggcggtgt gtggtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 75  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 75  
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gaggattggg 180  
 accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240  
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 gcgacgtggg gtcggacggg cgttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcgac atggcggtc 420  
 agatcacaa gcgcaagtgg gagcgcccc atgagcgga gcagctgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 76  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 76  
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gaggattggg 180  
 accaggagac acggaatgtg aaggcccagt cacagactga ccgagtggac ctggggaccc 240  
 tgcggcgcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcttgac cgcggcgac atggcggtc 420  
 agatcacaa gcgcaagtgg gagcgcccc atgagcgga gcagttgaga gcctacctgg 480  
 atggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcacgg 546

<210> 77  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
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 cgcggggagc cccgttcat cgcgtggg tacgtggacg acacgcagtt cgtgcggtc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccagtg 300  
 gacctgggga cctgcgcg ctactacaac cagagcgagg ccggttctca caccatccag 360  
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 gacatggcgg ctcatgac caagcgcaag tgggagcgcc ccatgtggc ggagcagcag 540  
 agagcctacc tggatggcac gtgcgtggag tggctcgca gatactgga gaacgggaag 600  
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ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag 897

<210> 78  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 78  
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 cgcgggggag cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccagga gacacggaat gtgaaggccc agtcacagac tgaccgagt 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
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 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcttg gaccgcggcg 480  
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 catgaggcca cctgaggtg ctgggcctg gcttctacc ctgcggagat cacactgacc 720  
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<210> 79  
 <211> 858  
 <212> DNA  
 <213> Homo sapiens

<400> 79  
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 acgacacgca gttcgtgcgg ttcgacagcg acgccgcgag ccagaggatg gagccgcggg 180  
 cgccgtggat agagcaggag gggccggagt attgggacca ggagacacgg aatgtgaagg 240  
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 acctgcgga gatcacactg acctggcagc gggatgggga ggaccagacc caggacacgg 720  
 agctcgtgga gaccaggcct gcaggggatg gaacctcca gaagtgggcg gctgtgtgg 780  
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 ccctcaccct gagatggg 858

<210> 80  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 80gctccactc catgaggtat ttcttcacat ccgtgtccc gcccggccgc ggggagcccc 60  
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 agatcaccaa gcgcaagtgg gaggcgccc atgaggcgga gcagttgaga gcctacctgg 480  
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 gcacgg 546

<210> 81  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 81  
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gagtattggg 180  
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 gcacgg 546

<210> 82  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 82  
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 agatcaccaa gcgcaagtgg gaggcgccc atgaggcgga gcagttgaga gcctacctgg 480  
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 gcacgg 546

<210> 83  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 83  
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 gcacgg 546

<210> 84  
 <211> 546  
 <212> DNA  
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<400> 84  
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<210> 85  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 85  
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 ggggatggaa cctccagaa gtggcggtg gtgtgtgtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg cccaagccc tcacctgag atgggag 897

<210> 86  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 86  
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tccagaagtg ggcggctgtg gtggtgcctt ctggagagga gcagagatac acctgccatg 780  
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 <213> Homo sapiens

<400> 87  
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<210> 88  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens  
 <400> 88

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 <213> Homo sapiens

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<400> 94  
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<212> DNA  
<213> Homo sapiens

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cagatcacca agcgaagtg gagggcgccc catcgggcg agcagcagag agcctacctg 480  
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cgacg 546

<210> 98  
<211> 546  
<212> DNA  
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<210> 99  
<211> 573

<212> DNA  
 <213> Homo sapiens

<400> 99

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<210> 100  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens  
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<210> 101  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 101

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gcacgg 546
  
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<210> 102  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens



&lt;400&gt; 102

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gcacgg 546

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&lt;210&gt; 103

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 103

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gcacgg 546

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&lt;210&gt; 104

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 104

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gcacgg 546

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&lt;210&gt; 105

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 105

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <211> 546

<212> DNA  
 <213> Homo sapiens

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 gcacgg 546

<210> 109  
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 <212> DNA  
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<210> 111  
 <211> 897  
 <212> DNA  
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&lt;400&gt; 111

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&lt;210&gt; 112

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 112

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agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcactg 546

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&lt;210&gt; 113

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

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 <213> Homo sapiens

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 <211> 546  
 <212> DNA  
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 ggggatggaa cctccagaa gtgggcagct gtggtggtag ctctggaga ggagcagaga 840  
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<210> 117  
 <211> 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

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cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc   180
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&lt;210&gt; 118

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

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agggccggtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc   540
gcacgg                                           546

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&lt;210&gt; 119

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

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cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg   180
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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

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&lt;210&gt; 121

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 121

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gcacgg 546

&lt;210&gt; 122

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 122

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&lt;210&gt; 123

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 123

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cgagccagag gatggagccg cggcgccgt gtagagaca ggaggggccc gattattggg 180  
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gcacgg 546

<210> 126  
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<213> Homo sapiens

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gcacgg 546



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<212> DNA  
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gcacgg 546

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gcacgg 546

<210> 130  
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<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 130

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agatcaccaa gcgaagtgg gaggcgccc atgtggcga gcagcagaga gcctacctgg 480
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gcacgg 546

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&lt;210&gt; 131

&lt;211&gt; 599

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 131

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&lt;210&gt; 132

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 132

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gagacgctgc agcgcacgg 619

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&lt;210&gt; 133

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

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gcacgg

546

&lt;210&gt; 137

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 137

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gcacgg 546

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&lt;210&gt; 138

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 138

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&lt;210&gt; 139

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 139

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<212> DNA  
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<211> 898  
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<400> 143  
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&lt;210&gt; 144

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 144

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&lt;210&gt; 145

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 145

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&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 146

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&lt;212&gt; DNA

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&lt;400&gt; 147

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&lt;211&gt; 897

&lt;212&gt; DNA

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&lt;400&gt; 148

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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acggaatgtg aaggccact cacagactga ccgagcgaac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggacg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgcttctcc gcgggtacca gcaggacgt tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctcttgac cgcggcggac atggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagtggaga gcctacctgg 480  
 agggccgggtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacgg 546

<210> 164

<211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 164  
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 cgcggggagc cccgttcat cgccgtgggc tacgtggagc acacgcagtt cgtgcggtt 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga gcaggagggg 240  
 ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgccacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgacgga cgccccaaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
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<210> 165  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 165  
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 cgcggggagc cccgttcat cgccgtgggc tacgtggagc acacgcagtt cgtgcggtt 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcac cgtggataga gcaggagggg 240  
 ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagttg 540  
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 gagacgtgc agcgacgga cgccccaaag acgcatatga ctcaccacgc tgtctctgac 660  
 catgaggcca cctgagggtg ctgggcctg agcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc ttgtggagac caggcctgca 780  
 ggggatggaa cttccagaa gtgggcgtct gtggtggtgc cttctggaca ggagcagaga 840  
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<210> 166  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

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 cgcggggagc cccgttcat cgccgtgggc tacgtggagc acacgcagtt cgtgcggtt 180  
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 ccggagtatt gggacctgca gacacggaat gtgaaggccc agtcacagac tgaccgagcg 300  
 aacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
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agagcctacc tggagggcac gtgcgtggac gggctccgca gatactgga gaacgggaag 600  
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 catgaggcca ccttgagggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720  
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 ggggatggaa ccttcagaa gtggcgctct gtgggtgtgc cttctggaca ggagcagaga 840  
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<210> 167  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 167  
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 cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc gagtattggg 180  
 acctgcagac acggcatgtg aaggcccagt cacagactga ccgagcgaac ctggggaccc 240  
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 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
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 agatcaccca gcgaagtgg gaggcgcccc gtgtggcgga gcagttgaga gcctacctgg 480  
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 gcacgg 546

<210> 168  
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 <212> DNA  
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 cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc gagtattggg 180  
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 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
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 agatcaccca gcgaagtgg gaggcgcccc atgaggcgga gcagcagaga gcctacctgg 480  
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 gcacgg 546

<210> 169  
 <211> 546  
 <212> DNA  
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<400> 169  
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 agatcaccca gcgaagtgg gaggcgcccc gtgtggcgga gcagttgaga gcctacctgg 480  
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 gcgcgg 546

<210> 170  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 cgagccagag gatggagccg cgggcaccgt ggatagagca ggaggggccc gagtattggg 180  
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 gcgacgtggg gtcggacggg cgcttcctcc gcgggtaccg gcaggacgcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
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 gcacgg 546

<210> 171  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 171  
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 agtggagagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagagg 240  
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 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
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 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
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 ggggatggaa ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga 840  
 tacacctgcc atgtgcagca tgagggtctg ccaagcccc tcacctgag atgggag 897

<210> 172  
 <211> 887  
 <212> DNA  
 <213> Homo sapiens

<400> 172  
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 agtggagagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagagg 240  
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 aacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 ataatgtatg gctgcgacgt ggggtcggac gggcgcttc tccgcgggta tgaacagcac 420  
 gcaaggatta catgcctg aacgaggacc tgcgtcttg gaccgcggcg gacatggcgg 480  
 ctacagatca ccagcgcaag tgggaggcgg ccgctcgggc ggagcagttg agagcctacc 540  
 tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag gagacgtgc 600  
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 atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca ggggatggaa 780  
 ccttcagaa gtgggcggct gtggtggtgc cttctggaga ggagcagaga tacacctgcc 840

atgtgcagca tgagggtctg cccaagcccc tcacctgag atgggag

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<211> 767

<212> DNA

<213> Homo sapiens

<400> 173

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gcgagccaga ggatggagcc gcgggcgcgc tggatagagc aggaggggcc ggagtattgg 180
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ggggaggacc agaccagga cagcgagctc gtggagacca ggcctgcagg ggatggaacc 720
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<210> 174

<211> 546

<212> DNA

<213> Homo sapiens

<400> 174

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cgagccagag gatggagccg gcgggcgcgc ggatagagca ggagaggcct gattattggg 180
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agatcaccca gcgaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcacgg 546

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<210> 175

<211> 546

<212> DNA

<213> Homo sapiens

<400> 175

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cgagccagag gatggagccg gcgggcgcgc ggatagagca ggagaggcct gattattggg 180
accaggagac acggaatgtg aaggccact cacagactga ccgagagaa ctggggacc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
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agatcaccca gcgaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
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gcacgg 546

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<210> 176  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
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 gcacgg 546

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 <211> 897  
 <212> DNA  
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<210> 178  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 178  
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
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 gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcagcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggcggccc gtcggcgga gcagttgaga gcctacctgg 480  
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<210> 179  
 <211> 822  
 <212> DNA  
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagaggcct gattattggg 180  
 accaggagac acggaatgtg aaggccact cacagactga ccgagagaac ctggggaccc 240  
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 agggcacgtg cgtggagtgg ctccgagat acctggagaa cgggaaggag acgctgcagc 540  
 gcacggaccc cccaagaca catatgaccc accaccccat ctctgacct gaggccaccc 600  
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 gggaggacca gaccaggac acggagctcg tggagaccag gcctgcaggg gatggaacct 720  
 tccagaagtg ggcggctgtg gtgtgcctt ctggagagga gcagagatac acctgccatg 780  
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&lt;210&gt; 180

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 accaggagac acggaatgtg aaggccact cacagactga ccgagtgac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagata atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360  
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&lt;210&gt; 181

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 181

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&lt;210&gt; 182

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 182

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&lt;210&gt; 183

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 183

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&lt;210&gt; 184

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 184

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&lt;210&gt; 185

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 185

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<212> DNA

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<211> 546

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

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&lt;210&gt; 216

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 216

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agggcggtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcacgg 546

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&lt;210&gt; 217

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 217

```

atggccgtca tggcgcccc aacctcgtc ctgtactct cgggggcct ggccctgacc 60
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cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggtt 180
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tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atggggag 897

```

&lt;210&gt; 218

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 218

```

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gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
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gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540
agagcctacc tggaggggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcacgga cgcgccaaa acgcatatga ctcaccacgc tgtctctgac 660
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<210> 219  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

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<400> 219
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cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
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ggggatggaa cctccagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840
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```

<210> 220  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

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<400> 220
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cgcggggagc ccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacggaat gtgaaggccc actcacagac tgaccgagt 300
gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360
atgatgtatg gctgcgacgt ggggtcggac gggcgcttcc tccgcgggta ccggcaggac 420
gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgctcttg gaccgcggcg 480
gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540
agagcctacc tggaggggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600
gagacgtgc agcgcacgga cgcgccaaa acgcatatga ctcaccacgc tgtctctgac 660
catgaagcca cctgaggtg ctgggccctg agcttctacc ctgcggagat cacactgacc 720
tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780
ggggatggaa cctccagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840

```

tacacctgcc atgtgcagca tgagggtttg cccaagcccc tcacctgag atgggag 897

<210> 221  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 221  
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 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccact cacagactga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 222  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 222  
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 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccact cacagattga ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 223  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 223  
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 gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggcccact cacagactca ccgagtggac ctggggaccc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttggac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 224  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens



&lt;400&gt; 224

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gctcccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg gagtattggg 180
accggaacac acggaatgtg aaggccagc cagagactga ccgagtggac ctggggaccc 240
tgcgcggtcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtatga acagcacgcc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420
agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 225

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 225

```

gctcccactc catgaggtat ttctacactt ccgtgtcccg gcccggccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggggccg gagtattggg 180
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agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 226

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 226

```

atggccgtca tggcgcctcg aacctcgtc ctgtactct cgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tatttttaca cctccgtgtc ccggcccggc 120
cgcggggagc cccgttcat cgcgtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagcca gaggatggag ccgcgggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccgga caccaggaat gtaaggccc agtcacagac tgaccgagt 300
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ggggatggaa ccttcagaa gtgggtggt gtggtggtgc cttctggaca ggagcagaga 840
tacacctgcc atgtgcagca tgagggttg cccaagcccc tcacctgag atgggag 897

```

&lt;210&gt; 227

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 227

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gctcccactc catgaggtat ttctacactt cegtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acggaatgtg aaggccagc cagactga cagagtggac ctggggaccc 240
tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300
gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgc tacgacggca 360
aggattacat cgcctgaaa gaggacctgc gctcttgac gcggcggac atggcagctc 420
agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagcagaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 228

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 228

```

gctcccactc catgaggtat ttctacactt cegtgtcccg gcccgccgc ggggagcccc 60
gcttcacgc cgtgggctac gtggacgaca cgcagttcgt gcggttcgac agcgacgcc 120
cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
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agaccacaa gcacaagtgg gaggcggccc atgtggcgga gcagtgagga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcacgg 546

```

&lt;210&gt; 229

&lt;211&gt; 579

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 229

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acctcgtcc tgctacttc gggggccctg gccctgaccc agacctgggc gggctccac 60
tccatgaggt attttacac ttccgtgtcc cggcccgcc gcggggagcc ccgcttcac 120
gccgtgggct acgtggacga cagcagttc gtgcggttcg acagcgacgc cgcgagccag 180
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atgcctga aagaggacct gcgtcttgg accgcggcgg acatggcagc tcagatcacc 480
aagcacaagt gggagggcgc ccatgtggcg gacagtgga gacctaact ggagggcacg 540
tgcgtggagt ggctccgacg atacctggag aacgggaag 579

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&lt;210&gt; 230

&lt;211&gt; 866

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 230

```

atggccgtca tggcggccg aacctcgtc ctgtactct cgggggccct ggccctgacc 60
cagacctggg cgggctccca ctccatgagg tattttaca cctccgtgtc cggcccgcc 120
cgcggggagc cccgttcat gcggtgggc tacgtggacg acacgcagtt cgtgcggtc 180
gcagcgacg ccgcgagcca gaggatggag ccgcggcgc cgtggataga gcaggagggg 240
ccggagtatt gggaccggga gacacggaat gtgaaggccc agtcacagac tgaccagtg 300

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gacctgggga ccctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
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 gcctacgacg gcaaggatta catcgccctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacagaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540  
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 catgaagcca ccctgagggtg ctgggccctg agcttctacc ctgcggagat cactactgacc 720  
 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
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 tacacctgcc atgtgcagca tgaggg 866

<210> 231  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 231  
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 gcttcacgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccctg ggatagagca ggaggggccc gagtattggg 180  
 acgaggagac acggaatgtg aaggccactg cacagactga ccgagtggac ctggggacc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgttctctcc gcgggtaccg gcaggacgcc tacgacggca 360  
 aggattacat cgcctgaaa gaggacctgc gctcttgac cgcggcggac atggcagctc 420  
 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 232  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 232  
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 gcttcacgc cgtgggttac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagccagag gatggagccg cggcgccctg ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccactg cacagactca ccgagtggac ctggggacc 240  
 tgcgcggcta ctacaaccag agcgaggccg gttctcacac catccagagg atgtatggct 300  
 gcgacgtggg gccggacggg cgttctctcc gcgggtacca ccagtacgcc tacgacggca 360  
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 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcacgg 546

<210> 233  
 <211> 615  
 <212> DNA  
 <213> Homo sapiens

<400> 233  
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 cctgggcccgc ctccactcc atgaggtatt ttacacttc cgtgtcccg cccggccgcg 120  
 gggagccccg cttcatcgcc gtgggctacg tggacgacac gcagttcgtg cgttctgaca 180  
 gcgacgccg gagccagagg atggagccgc gggcgccgtg gatagagcag gaggggcccg 240  
 agtattggga ccggaacaca cggaaatgtga aggccagtc acagactgac cgagtggacc 300  
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tgtatggctg cgacgtgggg tggacgggc gcttctccg cgggtaccgg caggacgcct 420  
 acgacggcaa ggattacatc gccctgaaag aggacctgcg ctcttgacc gcggcggaca 480  
 tggcagctca gaccaccaag cacaagtggg aggcggccct tgtggcggag cagtggagag 540  
 cctacctgga gggcacgtgc gtggagtggc tccgcagata cctggagaac gggaaggaga 600  
 cgctgcagcg cacgg 615

<210> 234  
 <211> 897  
 <212> DNA  
 <213> Homo sapiens

<400> 234  
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 cagacctggg cgggctccca ctccatgagg tatttctaca ctccgtgtc ccggccccgc 120  
 cgcggggagc cccgcttcat cgccgtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagcca gaggatggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacggaat gtgaaggccc agtcacagac tgaccgagtg 300  
 gacctgggga cctgcgcgg ctactacaac cagagcgagg ccggttctca caccatccag 360  
 atgatgtat gctgcgactg ggggtcggac gggcgcttcc tccgcgggta ccggcaggtc 420  
 gcctacgacg gcaaggatta catgcacctg aaagaggacc tgcgtcttg gaccgcggcg 480  
 gacatggcag ctacaccac caagcacaag tgggaggcgg cccatgtggc ggagcagtgg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
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 tggcagcggg atggggagga ccagaccag gacacggagc tcgtggagac caggcctgca 780  
 ggggatggaa cctccagaa gtgggtggct gtggtggtgc cttctggaca ggagcagaga 840  
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 <213> Homo sapiens

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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acggaatgtg aaggccactg cacagactga ccgagtggac ctggggaccc 240  
 tgcgeggcta ctacaaccag agcgaggccg gttctcacac catccagatg atgtatggct 300  
 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
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 agaccaccaa gcacaagtgg gaggcggccc atgtggcgga gcagtggaga gcctacctgg 480  
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 cgagccagag gatggagccg cgggcgccgt ggatagagca ggagggccg gagtattggg 180  
 accggaacac acggaatgtg aaggccagt cacagactga ccgagtggac ctggggaccc 240  
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 gcgacgtggg gtcggacggg cgcttctcc gcgggtaccg gcaggacgcc tacgacggca 360  
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 agaccaccaa gcacaagtgg gagggcgccc atgtggcgga gcagtggaga gcctacctgg 480  
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 gcacgg 546

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 ggggatggaa ccttcagaa gtgggtggct gtggtgtgc cttctggaca ggagcagaga 840  
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ccggagtatt gggaccagga gacacggaat gtgaaggccc actcacagac tgaccgagtg 300

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 gagacgctgc agcgacgg 619

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gcacgg

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gcacgg 546

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<212> DNA  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagttgaga gcctacctgg 480  
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&lt;210&gt; 250

&lt;211&gt; 897

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 250

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&lt;210&gt; 251

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 251

gccccgttc atgcc 16

&lt;210&gt; 252

&lt;211&gt; 19

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 252

gaccaggaga cacggaata 19

&lt;210&gt; 253

&lt;211&gt; 17

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 253

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19

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17

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 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<400> 549
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cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagaggac ctgcggaccc 240
tgctccgta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc ggggcatga ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540
gcgctg 546

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<210> 550<211> 546  
 <212> DNA  
 <213> Homo sapiens

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cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc ggggcatga ccaggacgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540
gcgctg 546

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<210> 551  
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 <212> DNA  
 <213> Homo sapiens

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<400> 551
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gcttcactc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gattattggg 180
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240
tgcgcggtta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgcctcctcc ggggcatga ccagtacgcc tacgacggca 360
aggattacat cgcctgaac gaggacctgc gctcctggac cgcgcggac acggcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480

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agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 552  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 552  
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gttcatctc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc ggggcatga ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgccgggac acggcggtc 420  
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 553  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 553  
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cgagtcgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
tgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc ggggcatga ccagtacgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctgc gctctggac cgccgggac acggcggtc 420  
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540  
gcgctg 546

<210> 554  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 554  
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cgcggggagc ccgcttcat ctacgtggg tacgtggac acacgcagtt cgtgaggtc 180  
gacagcgac ccgcgagtcc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac tgaccgagag 300  
agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
agcatgtacg gctgcgacgt ggggccggac gggcgctcc tccgaggca taaccgtac 420  
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctctg gaccgcgcg 480  
gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcaggac 540  
agagcctacc tggagggcac gtgcgtggag tggtccgca gatacctgga gaacgggaag 600  
gacacgtgg agcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cactctgacc 720  
tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840

tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 ttttccagtc ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggcatcgc gagctgtggt cgctgctgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 555  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 555  
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 gagacctggg cgggctccca ctccatgagg tatttcgaca ccgccatgtc ccggcccggc 120  
 cgcggggagc cccgcttcac ctcatgtggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac tgaccgagag 300  
 aacctgcgca ccgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 agcatgtacg gctgcgacgt ggggcccggc gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgcggcg 480  
 gacaccgcgg ctcatcacac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gacacgtcgg agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgacg ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgggtc ctctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 ttttccagtc ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggcatcgc gagctgtggt cgctgctgtg atgtgttagga ggaagagctc aggtgga 1017

<210> 556  
 <211> 526  
 <212> DNA  
 <213> Homo sapiens

<400> 556  
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 gtggacgaca cgcagttcgt gaggttcgac agcgacgccg cgagtccgag agaggagccg 120  
 cggcgccgt ggatagagca ggaggggccc gagtattggg accggaacac acagatcttc 180  
 aagaccaaca cacagactta ccgagagaac ctgcggatcg cgctccgta ctacaaccag 240  
 agcgaggccc ggtctcacac cctccagagc atgtacggct gcgacgtggg gccggacggg 300  
 cgctcctcc gcgggcataa ccagtacgcc tacgacggca aggattacat cgcctgaac 360  
 gaggacctgc gctcctggac cgcggcggac accgcggctc agatcaccca gcgaagtgg 420  
 gaggcggccc gtgtggcgga gcaggacaga gctacctgg agggcacgtg cgtggagtgg 480  
 ctccgcagat acctggagaa cgggaaggac acgctggagc gcgcgg 526

<210> 557  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 557  
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 gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccc ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgcctgaac gaggacctgc gctcctggac cgcggcggac accgcggctc 420

agatcaccca ggcgaagtgg gagggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
gcgcgg 546

<210> 558  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 558  
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gttcatctc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagacctc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc ggggcataa ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctctggac cgcggcgac accgcggctc 420  
agatcaccca ggcgaagtgg gagggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
gcgcgg 546

<210> 559  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 559  
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gttcatctc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctc aagaccaaca cacagactga ccgagagAAC ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc ggggcataa ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctctggac cgcggcgac accgcggctc 420  
agatcaccca ggcgaagtgg gagggcgccc gtgaggcgga gcagcggaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
gcgcgg 546

<210> 560  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 560  
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gttcatctc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtcgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accggaacac acagatctc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc ggggcataa ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctctggac cgcggcgac accgcggctc 420  
agatcaccca ggcgaagtgg gagggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
gcgcgg 546

<210> 561

<211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 561  
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 gcttcacttc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 562  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 gcttcacttc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 563  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 563  
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 gcttcacttc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcgcggt cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 564  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 564  
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gcttcatctc agtggggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120
cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgcgccggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgctggagc 540
gcgcgg 546

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<210> 565  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<400> 565
gctccactc catgaggtat ttgacaccg ccatgtccc gcccggccgc ggggagcccc 60
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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
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gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgcgccggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagtgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgctggagc 540
gcgcgg 546

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<210> 566  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<400> 566
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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggtacca ccaggacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgcgccggac accgcggctc 420
agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgctggagc 540
gcgcgg 546

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<210> 567  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<400> 567
gctccactc catgaggtat ttgacaccg ccatgtccc gcccggccgc ggggagcccc 60
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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180
accggaacac acagatcttc aagaccaaca cacagactga ccgagtgagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat cgccctgaac gaggacctgc gctctggac cgcgccggac accgcggctc 420

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agatcaccca ggcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 568  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 568  
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 gttctatctc agtgggttac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacaggtga cagagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
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 aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac accgcggctc 420  
 agatcaccca ggcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggac acgtggagc 540  
 gcgcgg 546

<210> 569  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 569  
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 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatcttc aagaccaaca cacagactga cagagagaac ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctgc gctctggac cgcggcggac accgcggctc 420  
 agatcaccca ggcgaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
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 gcgcggaccc ccaaagaca cactgaccc accaccccat ctctgacct gaggccaccc 600  
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 <213> Homo sapiens

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 <213> Homo sapiens

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 <212> DNA  
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<210> 573

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 <212> DNA  
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 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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&lt;210&gt; 582

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 582

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&lt;210&gt; 583

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 583

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agagcctacc tggaggggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600
gagacgtgc agcgcgcg 619

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&lt;210&gt; 584

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 584

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 <212> DNA  
 <213> Homo sapiens

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gcgcgg 546

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&lt;210&gt; 588

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 588

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gcgcgg 546

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&lt;210&gt; 589

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 589.

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gcgcgg 546

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&lt;210&gt; 590

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 590

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 <212> DNA  
 <213> Homo sapiens

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&lt;210&gt; 601

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 601

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&lt;210&gt; 602

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 602

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 <213> Homo sapiens

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 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
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<210> 614  
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 <212> DNA  
 <213> Homo sapiens

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 ggcgccccgg gcgcatgga tagagcagga ggggcggag tattgggacc gggagacaca 180  
 gatctccaag accaacacac agacttaccg agagagcctg cggaacctgc gcggctacta 240  
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 ggacggggcg ctctcccg ggcatgacca gtcgcctac gacggcaagg attacatcg 360  
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 caagtgggag gcggcccgtg aggcggagca gtggagagcc tacctggagg gcctgtgcgt 480  
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 <212> DNA  
 <213> Homo sapiens

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 cgcggggagc ccgcttcat cgagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgagatcc gaggatggcg cccggggcg catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gatacagatc tccaagacca acacacagac ttaccgagag 300

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ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
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<210> 616  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

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<400> 616
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cgcggggagc ccgcttcat ctagtgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240
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ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg cgaagcccc tcacctgag atggg 895

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<210> 617  
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 <213> Homo sapiens

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<400> 617
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ggcggccggg gcgccatgga tagagcagga ggggccggag tattgggacc gggagacaca 180
gatctccaag accaacacac agacttaccg agagagcctg cggaacctgc gcggtacta 240
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caagtgggag gcggcccggt aggcggagca gtggagagcc tacctggagg gcctgtgcgt 480
ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgc 529

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<210> 618  
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 <212> DNA  
 <213> Homo sapiens

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<400> 618
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ggcgccccgg gcgccatgga tagagcagga ggggcccggag tattgggacc ggaacacaca 180  
 gatctccaag accaacaacac agacttaccg agagagcctg cggaacctgc gcggctacta 240  
 caaccagagc gagggccgggt ctacaccct ccagaggatg tacggctgcg acgtggggcc 300  
 ggacggggcg ctctcccgcg ggtatgacca gtccgcctac gacggcaagg attacatcgc 360  
 cctgaacgag gacctgagct cctggaccgc ggcggacacg gcggctcaga tcaccagcg 420  
 caagtgggag gcggcccgtg tggcggagca gctgagagcc tacctggagg gcctgtgcgt 480  
 ggagtggctc cgcagatacc tggagaacgg gaaggagacg ctgcagcgcg cgg 533

<210> 619  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 cgagtcagag gatggcgccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtctggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
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<210> 620  
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 <212> DNA  
 <213> Homo sapiens

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 cgagtcagag gatggcgccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
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 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
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 gcgcgg 546

<210> 621  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 cgagtcagag gatggcgccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
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 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540

gcgcgg

546

&lt;210&gt; 622

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 622

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 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
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&lt;210&gt; 623

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 623

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 cgagtcgag gatggcgccc cggcgccat ggatagagca ggaggggccc gagtattggg 180  
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&lt;210&gt; 624

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 624

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 cgagtcgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180  
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 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
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&lt;210&gt; 625

&lt;211&gt; 546

&lt;212&gt; DNA

<213> Homo sapiens

<400> 625

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<210> 626

<211> 546

<212> DNA

<213> Homo sapiens

<400> 626

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cgagtcagag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180
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<210> 627

<211> 546

<212> DNA

<213> Homo sapiens

<400> 627

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gcgcgg 546

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<210> 628

<211> 546

<212> DNA

<213> Homo sapiens

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accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
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 agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagtgaga gcctacctgg 480  
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 <213> Homo sapiens

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gcgcgg

546

&lt;210&gt; 632

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 632

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ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
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gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg gaccgcggcg 480  
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagtgg 540  
agagcctacc tggagggcct gtgcgtggag tggtccgca gatactgga gaacgggaag 600  
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&lt;210&gt; 633

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 633

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tgccggtgta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg gcctcctcc ggggcatga ccagtcgcc tacgacggca 360  
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agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcgga gactacctg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

&lt;210&gt; 634

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 634

gtccccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
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cgagtccgag gatggcccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccggtgta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg gcctcctcc ggggcataa ccagtacgcc tacgacggca 360  
aggattacat gcctctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

&lt;210&gt; 635

&lt;211&gt; 546

<212> DNA  
<213> Homo sapiens

<400> 635  
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gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccg gattattggg 180  
accgggagac acagatctcc aagaccaaca cacgactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
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aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480  
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gcgcgg 546

<210> 636  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 636  
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cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg gattattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
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aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480  
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gcgcgg 546

<210> 637  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 637  
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cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccg gattattggg 180  
accggaacac acagatctgc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
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gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcaggacaga gcctacctgg 480  
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gcgcgg 546

<210> 638  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 638  
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gagacctggg ccggctccca ctccatgagg tattttctaca ccgccatgtc ccggccccgc 120



```

cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180
gacagcgacg ccgcgagtc gagagaggag ccgcggggcg cgtggataga gcaggagggg 240
ccggagtatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcg 619

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<210> 639  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

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<400> 639
atgcgggtca cggcgccccg aaccgtctc ctgctgctct cgggagccct ggcctgacc 60
gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180
gacagcgacg ccacgagtc gaggaaggag ccgcggggcg catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360
aggatgtacg gctgcgacgt ggggccggac gggcgccctc tccgcgggca tgaccagtcc 420
gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgagc ggagcagtgg 540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgcg 619

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<210> 640  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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<400> 640
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gagacctggg ccggtccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgcttcat ctcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180
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ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
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gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480
gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgagc ggagcagtgg 540
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tcttccagc ccacatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960
gtggtcatcg gagctgtgt cgctactgtg atgtgtagga ggaagagtc aggtgga 1017

```

<210> 641  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 641

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atgcggtgca cggcgccccg aaccgtcctc ctgctgtctc cgggagccct ggccttgacc    60
gagacctggg ccggtcccca ctccatgagg tatttctaca ccgcatgtc ccggcccggc    120
cgcggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc    180
gacagcgacg ccgcgagtcg gaggatggcg ccccgggcgc catggataga gcaggagggg    240
ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag    300
agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag    360
agcatgtacg gctgcgacgt ggggcccggc gggcgccctc tccgcggtg tgaccagtcc    420
gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctctg gaccgcggcg    480
gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg    540
agagcctacc tggagggcct gtgcgtggag tggctccgca gatactgga gaacgggaag    600
gagacgctgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac    660
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tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca    780
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tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca    900
tcttccagc ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt    960
gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga    1017

```

&lt;210&gt; 642

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 642

```

gtcctccact catgaggtat ttctacaccg ccatgtcccc gcccgccgc ggggagcccc    60
gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg    120
cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg    180
accgggagac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc    240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct    300
gcgacgtggg gccggacggg cgctctctc gcgggcatga ccagtccgcc tacgacggca    360
aggattacat gcctgaac gaggacctga gctcctggac cgcgcgggac acggcggtc    420
agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg    480
agggcctgtg cgtggagtgg ctcccgagat acctggagaa cgggaaggag acgctgcagc    540
gcgcgg                                           546

```

&lt;210&gt; 643

&lt;211&gt; 615

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 643

```

gggtcacggc gccccgaacc gtctctctgc tgctctcggg agccttgccc ctgaccgaga    60
cctgggcccgg ctccactcc atgaggtatt ttacaccgc catgtcccgg ccggcccgcg    120
gggagccccg cttcatcgca gtgggctacg tggacgacac ccagttcgtg aggttcgaca    180
gcgacgccgc gagtccgagg atggcgcccc gggcgccatg gatagagcag gaggggcccg    240
agtattggga ccgggagaca cagatctcca agaccaacac acagacttac cgagtgaacc    300
tgcggaacct gcgcggctac tacaaccaga gcgaggccgg gtctcacacc ctccagagga    360
tgtacggctg cgacgtgggg ccggacgggc gcctctccg cgggcatgac cagtccgct    420
acgacggcaa ggattacatc gccctgaacg aggacctgag ctctggacc gcggcggaca    480
cggcggtcga gatcacccag cgcaagtggg aggcggcccc tgaggcgag cagtggagag    540
cctacctgga gggcctgtgc gtggagtggc tcccgagata cctggagaac gggaaggaga    600
cgctgcagcg gcgcg                                           615

```

&lt;210&gt; 644

&lt;211&gt; 619

&lt;212&gt; DNA

<213> Homo sapiens

<400> 644

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atgcgggtca cggcgcccc aaccgtctc ctgtctctt cgggagccct ggcctgacc   60
gagacctggg cgggtccca ctccatgagg tattttaca ccgcatgtc cggcccggc   120
cgcggggagc cccgttcat cgcagtggc tacgtggagc acaccagtt cgtgaggtc   180
gacagcgacg ccgagatcc gaggatggc ccccgggcg catggataga gcaggagggg   240
ccggagtatt gggaccggga gacacagat tccaagacca acacacagac ttaccgagag   300
agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag   360
aggatgtacg gctgcgagc ggggcccggac gggcgctcc tccgcccga taaccagttc   420
gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctctg gaccgcccg   480
gacacggcgg ctcatcac ccagcgcaag tgggagggc cccgtgagc ggagcagtg   540
agagcctacc tggagggcct gtgcgtggag tggctccga gatactgga gaacgggaag   600
gagacgtgc agcgccgg                                     619

```

<210> 645

<211> 546

<212> DNA

<213> Homo sapiens

<400> 645

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gtccccactc catgaggtat ttctacaccg ccatgtccc gcccgccgc ggggagcccc   60
gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcaac agcgacgcc   120
cgagtccgag gatggcgccc cggcgccat ggatagagca ggaggggccg gattattggg   180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc   240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct   300
gcgacgtggg gccggacggg gcctctctcc cggggcatga ccagtcgcc tacgacggca   360
aggattacat gccttgaa gaggacctga gctctggac cgcggcggac acggcggtc   420
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtggaga gcctacctgg   480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc   540
gcgcgg                                     546

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<210> 646

<211> 546

<212> DNA

<213> Homo sapiens

<400> 646

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gtccccactc catgaggtat ttctacaccg ccatgtccc gcccgccgc ggggagcccc   60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgcc   120
cgagtccgag agaggagccg cggcgccgt ggatagagca ggaggggccg gattattggg   180
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc   240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct   300
gcgacgtggg gccggacggg gcctctctcc cggggcatga ccagtcgcc tacgacggca   360
aggattacat gccttgaa gaggacctga gctctggac cgcggcggac acggcggtc   420
agatcaccca gcgcaagtgg gagggcgccc gtgaggcgga gcagtggaga gcctacctgg   480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc   540
gcgcgg                                     546

```

<210> 647

<211> 546

<212> DNA

<213> Homo sapiens

<400> 647

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gtccccactc catgaggtat ttctacaccg ccatgtccc gcccgccgc ggggagcccc   60
gcttcatctc agtgggctac gtggacgaca cgcagttcgt gaggttcgac agcgacgcc   120

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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480  
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 gcgcgg 546

<210> 648  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 648  
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 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
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 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtacgc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 649  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 649  
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 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
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 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 650  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 650  
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 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
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 gcgacgtggg gccggacggg cgctctctcc gcgggcatga ccagtccgc tacgacggca 360  
 aggtattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acggcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagcggaga gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 651  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 651  
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gagacctggg cgggtccca ctccatgagg tttttctaca cgcctatgtc cggccccggc 120  
cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
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ccggagtatt gggaccggga gacacagatc tgcaagacca acacacagac ttaccgagag 300  
agcctgcgga acctgcgcgg ctactacaac cagagcgagg cgggttctca caccctccag 360  
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gcctacgacg gcaaggatta catgcacctg aacgaggacc tgagctcctg gaccgcggcg 480  
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gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgaggtg ctgggacctg ggcttctacc ctgcggagat cacactgacc 720  
tggcagcggg atggcgagga ccaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagatagaa ccttcagaa gtgggcagct gtggtgtgct cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttccagc ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
gtggtcatcg gagctgtgtg cgtactgtg atgtgtagga ggaagagtc aggtgga 1017

<210> 652  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 652  
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cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acggaacatg aaggcctccg cgcagactta ccgagagaac ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac ttggcagagg atgtatggct 300  
gcgacctggg gccggacggg gcctcctcc ggggcatga ccagtccgcc tacgacggca 360  
aggattacat gccctgaac gaggacctga gctctggac cgcggcggac acggcggtc 420  
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gcgcgg 546

<210> 653  
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<212> DNA  
<213> Homo sapiens

<400> 653  
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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
tgccgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
gcgacgtggg gccggacggg gcctcctcc ggggcatga ccagtccgcc tacgacggca 360  
aggattacat gccctgaac gaggacctga gctctggac cgcggcggac acggcggtc 420

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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480
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gcgcggacc cccaaagaca catgtgacc accacccat ctctgacct gagggcacc 600
tgaggtgctg ggcctgggc ttctaccctg cggagatcac actgacctgg cagcgggatg 660
gcgaggacca aactcaggac accgagcttg tggagaccag accagcagga gatagaacct 720
tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780
tacagcatga ggggctgccg aagccctca cctgagatg gg 822

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<210> 654  
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 <212> DNA  
 <213> Homo sapiens

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<400> 654
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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180
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gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtccgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

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<210> 655  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<400> 655
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cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240
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<210> 656  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

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<400> 656
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tccagaagtg ggcagctgtg gtgtgcctt ctggagaaga gcagagatac acatgccatg 780  
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<210> 657  
<211> 822  
<212> DNA  
<213> Homo sapiens

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cgagtccgag agaggagccg cggcgccgt ggatagagca ggaggggccg gattattggg 180  
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<210> 658  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 658  
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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagtgaga gcctacctgg 480  
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gcgcgg 546

<210> 659  
<211> 546  
<212> DNA  
<213> Homo sapiens

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<210> 660  
 <211> 546  
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 gcgcgg 546

<210> 661  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 aggattacat gcctctgaac gaggacctga gctctggac cgcgccggac accgcggtc 420



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 gcgcgg 546

<210> 663  
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 <212> DNA  
 <213> Homo sapiens

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 tcttcccagt ccaccatccc catcgtgggc attgtgtctg gcttggtgt cctagcagtt 960  
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<210> 664  
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 <213> Homo sapiens

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 tcttcccagt ccaccatccc catcgtgggc attgtgtctg gcttggtgt cctagcagtt 960  
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<210> 665  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 665

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agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

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&lt;210&gt; 666

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 666

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gcgcgg 546

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&lt;210&gt; 667

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 667

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&lt;210&gt; 668

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 668

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gcgcgg 546

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&lt;210&gt; 669

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 669

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gcgcgg 546

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&lt;210&gt; 670

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 670

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agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

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&lt;210&gt; 671

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 671

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gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcattc agtgggctac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cggcgccgt ggatagagca agaggggccg gagtattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240

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```

tgcgcgggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
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gcgcgg

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<210> 672  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<400> 672
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cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gattattggg 180
accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg

```

<210> 673  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

```

<400> 673
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gttctatctc agtgggttac gtggacggca ccagttcgt gaggttcgac agcgacgccg 120
cgagtccgag gacggagccc cgggcgccgt ggatagagca agaggggccg gattattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
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gcgcgg

```

<210> 674  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<400> 674
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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcgagga gcctacctgg 480
agggcacgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540
gcgcgg

```

<210> 675  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 675  
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 cgagtccgag gacggagccc cgggcgccgt ggatagagca agagggggccg gattattggg 180  
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 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 676  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 676  
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 cgagtccgag gacggagccc cgggcgccgt ggatagagca agagggggccg gattattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
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 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 677  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 677  
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 cgagtccgag gacggagccc cgggcgccgt ggatagagca agagggggccg gattattggg 180  
 accggaacac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
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 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagac acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 678  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 678

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cgagtcgag agaggagccg cggcgccgt ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctgc aaggccaagg cacagactta ccgagagaac ctgcgcaccg 240
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gcgacgtggg gccggacggg cgctcctcc gccgggtacca ccaggacgcc tacgacggca 360
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agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540
gcgcgg 546

```

<210> 679  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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<400> 679
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cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggtc 180
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ccggagtatt gggaccggga gacacagatc tgcaaggcca aggcacagac tgaccgagag 300
aacctgcgga tcgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360
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gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctctg gaccgccgcg 480
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agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
gagacgtgc agcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660
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gtggtcatcg gagctgtgt cgctgctgt atgtgttaga ggaagagtc aggtgga 1017

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<210> 680  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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<400> 680
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gagacctggg ctggctccca ctccatgagg tatttcaca cctccgtgc cggcccggc 120
cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggtc 180
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tcttccagc ccaccgtcc catcgtgggc attgtgtg ctctggctgt cctagcagtt 960
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<210> 681  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 681  
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 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
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<210> 682  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 682  
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 tcttccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
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<210> 683  
 <211> 427  
 <212> DNA  
 <213> Homo sapiens

<400> 683  
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 tctgcaaggc caaggcacag actgaccgag aggacctgcg gacctgctc cgctactaca 180  
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 agtggggaggc ggcccgtgtg gcggagcagc tgagagccta cctggaggggc gaggcggtgg 420  
 agtggct 427

<210> 684  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

<400> 684  
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 gacacggcgg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
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 gagacgtgc agcgccgg 619

<210> 685  
 <211> 895  
 <212> DNA  
 <213> Homo sapiens

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 tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcacctgag atggg 895

<210> 686  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 686  
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<210> 687  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 687  
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 tcttccagc ccacctccc catcgtgggc attgttctg gcctggctgt ctagcagtt 960  
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<210> 688  
 <211> 945  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 689

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&lt;210&gt; 690

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 691

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 691

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aggattacat cgccctgaac gaggacctga gctctggac cgccgcgac acggcggtc    420
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<212> DNA  
<213> Homo sapiens

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<210> 693  
<211> 1017  
<212> DNA  
<213> Homo sapiens

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<211> 1017  
<212> DNA  
<213> Homo sapiens

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gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
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 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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 gcgcgg 546

<210> 697  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
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<210> 698  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

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 gagacgctgc agcgcgcgg 619

<210> 700  
 <211> 546  
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<210> 701  
 <211> 546  
 <212> DNA  
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 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
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<210> 702  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccagtacgcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggcgcccc gtgaggcgga gcagctgaga gcctacctgg 480  
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<210> 703  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 cgagtccgag agaggagccg cgggcccgt ggatagagca ggaggggccc gagtattggg 180  
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<210> 704  
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<400> 704  
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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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 ccggagtatt gggaccgga cacacagatc ttcaagacca acacacagac ttaccgagag 300  
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 <212> DNA  
 <213> Homo sapiens

<400> 707  
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<210> 708  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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<210> 709  
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 <212> DNA  
 <213> Homo sapiens

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<210> 710  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 710  
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<210> 711  
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 <212> DNA  
 <213> Homo sapiens

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<210> 712

<211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 712

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<210> 713  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 713

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cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180
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<210> 714  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 714

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<210> 715  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 715

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<210> 716  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 716

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gcgcgg 546

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<210> 717  
 <211> 525  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 717

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&lt;210&gt; 718

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 718

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&lt;210&gt; 719

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 719

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 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcagctgaga gcctacctgg 480  
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 cgagtcgcag gacggagccc cgggcgccat ggatagagca ggagggggccg gagtattggg 180  
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 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgccc gtgaggcgga gcagtgaga gcctacctgg 480  
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 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
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 <212> DNA  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
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 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcgga gcctacctgg 480  
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<210> 726

<211> 546  
 <212> DNA  
 <213> Homo sapiens

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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
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<210> 727  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<210> 728  
 <211> 546  
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 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
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 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
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 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 729  
 <211> 546  
 <212> DNA  
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 gcgacctggg gcccgacggg cgcctctcc gcgggcataa ccagtaccgc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

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 cgagtcgag gacggagccc cgggcgccat gtagagagca ggaggggccc gagtattggg 180  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
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 <211> 546  
 <212> DNA  
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<210> 733  
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<211> 546  
<212> DNA  
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gcgcgg 546

<210> 735  
<211> 619  
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gacaccggg ctcagatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
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<211> 546  
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<210> 737  
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 <212> DNA  
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<210> 738  
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 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 740  
 <211> 564  
 <212> DNA  
 <213> Homo sapiens

<400> 740tgaccgagac ctgggccgcg tccactcca tgaggtattt ctacaccgcc atgtcccgcc 60  
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 ggttcgacag cgacgccgcg agtcgagga cggagccccg ggcgccatgg atagagcagg 180  
 aggggccgga gtattgggac cggaacacac agatcttcaa gaccaacaca cagacttacc 240  
 gagagagcct gcggaacctg cgcggctact acaaccagag cgaggccggg tctcacatca 300  
 tccagaggat gtatggctgc gacctggggc ccgacgggcg cctctccgc gggcatgacc 360  
 agttcgcta cgacggcaag gattacatcg cctgaacga ggacctgagc tctggaccg 420  
 cggcgacac cgcggctcag ataccacgc gcaagtggga ggcggcccgt gtggcgagc 480  
 agctgagagc ctacctggag ggcgagtgcg tggagtggct ccgagatac ctggagaacg 540  
 ggaaggagac gctgcagcgc gcgg 564

<210> 741  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 741  
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 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctctcc gcgggcatga ccagtacgc tacgacggca 360  
 aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 742  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 742  
 gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60

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gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggagggggccg gaggattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360
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agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga acctacctgg 480
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcgcgg 546

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<210> 743  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<400> 743
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gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggagggggccg gaggattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcgcgg 546

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<210> 744  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<400> 744
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gcttcacgc agtgggctac gtggacgaca cccagttcgt gaggttcgac agcgacgccg 120
cgagtcgag gacggagccc cgggcgccat ggatagagca ggagggggccg gaggattggg 180
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300
gcgacctggg gcccgacggg cgctcctcc gcgggcatga ccagtcgcc tacgacggca 360
aggattacat cgccctgaac gaggacctga gctcctggac cgcgccggac acccgggctc 420
agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540
gcgcgg 546

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<210> 745  
 <211> 548  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> misc\_feature  
 <222> (547)..(547)  
 <223> n is a, c, g, or t

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<400> 745
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 cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgcctcctcc gcgggcatga ccagttcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgdna 548

<210> 746  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 746  
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 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtccgag gacggagccc cgggcgcat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 747  
 <211> 912  
 <212> DNA  
 <213> Homo sapiens

<400> 747  
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 cgccatgtcc cggcccgccc gcggggagcc ccgttcac gcaagtgggt acgtggacga 120  
 caccagttc gtgaggttcg acagcgacgc cgcgagtcg aggcaggagc cccgggcgcc 180  
 atggatagag caggaggggc cggagtattg ggaccggaac acacagatct tcaagaccaa 240  
 cacacagact taccgagaga gcctgcggaa cctgcgcggc tactacaacc agagcgaggc 300  
 cgggtctcac atcatccaga ggatgtatgg ctgcgacctg gggcccgacg ggcgcctcct 360  
 ccgcgggcat gaccagtccg cctgcgacgg caaggattac atcgcctga acgaggacct 420  
 gagtctctgg accgcggcgg acaccgggc tcagatcacc cagcgcaagt gggaggcggc 480  
 ccgtgtggcg gacgagctga gacctaact ggaggcctg tgcgtggagt ggctccgag 540  
 atacctggag aacgggaagg agacgtgca gcgcgcggac ccccaaaga cacacgtgac 600  
 ccaccacccc gtctctgacc atgaggccac cctgaggtgc tgggccttg gcttctaccc 660  
 tgcggagatc aactgacct ggcagcgga tggcgaggac caaactcagg aactgagct 720  
 tgtggagacc agaccagcag gagatagaac ctccagaag tgggcagctg tgggtgtgcc 780  
 ttctggagaa gacgagagat acacatgcca tgtacagcat gaggggctgc cgaagccct 840  
 caccctgaga tgggagccat ctccagtc caccatcccc atcgtgggca ttgttgctg 900  
 cctggtgctc ct 912

<210> 748  
 <211> 1012  
 <212> DNA  
 <213> Homo sapiens

<400> 748  
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gagacctggg ctggtccca ctccatgagg tattttctaca cgcctatgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcaggtcc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccagc gggcgctcc tcccggggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccggggcg 480  
 gacacggcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacagtga cccaccacc cgtctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgttagga ggaagagtc ag 1012

<210> 749

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 749

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 cgcgggggagc cccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcaggtcc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacct ggggcccagc gggcgctcc tcccggggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagtcctg gaccggggcg 480  
 gacacggcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagttg 540  
 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acacagtga cccaccacc catctctgac 660  
 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
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 tcttccagt ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctactgtg atgttagga ggaagagtc aggtgga 1017

<210> 750

<211> 546

<212> DNA

<213> Homo sapiens

<400> 750gctccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc 60  
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 cgagtcgag gacggagccc cgggcgcat gtagagaca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
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 gcgacgtggg gccggacggg cgcctctcc gcgggcataa ccagtacgc tacgacggca 360  
 aggtattacat gcgctgaac gaggacctga gctcctggac cgcggcggac acggcggtc 420  
 agatcaccca gcgaagtgg gaggcgccc gtgaggcgga gcagtggaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgagat acctggagaa cggaaggag acgtgcagc 540  
 gcgagg 546

<210> 751  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 751  
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 cgagtccgag gacggagccc cggggcccat ggatagagca ggaggggccg gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg gcctcctcc gcgggcatga ccagtccgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga gcctacctgg 480  
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 gcgcgg 546

<210> 752  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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 cggggggagc ccgcttcat ctcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga gcaggagggg 240  
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 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccatccag 360  
 aggatgtctg gctgcgacgt ggggccggac ggggcctcc tccgcgggta taaccagttc 420  
 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcggcg 480  
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 agagcctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
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 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
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 tcttccagc ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 753  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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 cggggggagc ccgcttcat ctcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 gacctgcgga cctgctccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
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 gcctacgacg gcaaggatta catgccttg aacgaggacc tgagctcctg gaccgcgcg 480  
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catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
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<210> 754  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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 cgcggggagc ccgcttcat ctcatgagg tacgtggacg acaccagtt cgtgaggttc 180  
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 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
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 agagcctacc tggagggcac gtgcgtggag tggctccgca gacacctgga gaacgggaag 600  
 gagacgtgc agcgcgcgga cccccaaag acatgtgtga cccaccacc catctctgac 660  
 catgaggcca ccctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
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 tcttccagt ccaccatcc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
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<210> 755  
 <211> 619  
 <212> DNA  
 <213> Homo sapiens

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 cgcggggagc ccgcttcat ctcatgagg tacgtggacg acaccagtt cgtgaggttc 180  
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 gacctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccatccag 360  
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 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcaggac 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gataacctgga gaacgggaag 600  
 gagacgtgc agcgcgcg 619

<210> 756  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 756  
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 gagacctggg ccggtccca ctccatgagg tatttctaca cctccgtgtc cggcccggc 120



cgcggggagc cccgcttcat ctacgtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggccggac gggcgctcc tccgcgggca taaccagttc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgcgg ctcatatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
 agaacctacc tggagggcac gtgcgtggag tggctccgca gatacctgga gaacgggaag 600  
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&lt;210&gt; 757

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 757

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&lt;210&gt; 758

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 758

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 <213> Homo sapiens

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<210> 760  
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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
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<210> 762  
 <211> 546  
 <212> DNA

<213> Homo sapiens

<400> 762

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gcgcgg 546

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<210> 763

<211> 546

<212> DNA

<213> Homo sapiens

<400> 763

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gcgcgg 546

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<210> 764

<211> 546

<212> DNA

<213> Homo sapiens

<400> 764

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gcgcgg 546

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<210> 765

<211> 548

<212> DNA

<213> Homo sapiens

<220>

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<222> (547)..(547)

<223> n is a, c, g, or t

<400> 765

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gcgcgdna 548

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<210> 766

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 766

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tggtcatcg gagctgtgtg cgctgtgtg atgtgttaga ggaagagttc aggtgga 1017

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<210> 767

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 767

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gacaccgagg ctcatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
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tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780
ggagacagaa cttccagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840

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tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
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 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

<210> 768  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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<210> 771  
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 <212> DNA  
 <213> Homo sapiens

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<210> 772  
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 <212> DNA  
 <213> Homo sapiens

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<210> 773  
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 <213> Homo sapiens

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 <213> Homo sapiens

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 <213> Homo sapiens

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&lt;210&gt; 776

&lt;211&gt; 413

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 776

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&lt;210&gt; 777

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 777

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&lt;210&gt; 778

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 778

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&lt;210&gt; 779

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 779

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&lt;210&gt; 780

&lt;211&gt; 677

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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gagcttgtgg agaccag 677

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<211> 546  
<212> DNA  
<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<210> 784  
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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 784

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gcgcggg 546

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&lt;210&gt; 785

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 785

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gcgcggg 546

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&lt;210&gt; 786

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 786

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&lt;210&gt; 787

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 787

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<210> 788  
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 <212> DNA  
 <213> Homo sapiens

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<400> 788
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<210> 789  
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 <213> Homo sapiens

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gcgcgg 546

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<210> 790  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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gcgacgtggg gccggacggg cgcctcctcc gcgggcataa ccagttcgcc tacgacggca 360
aggattacat cgcctgaac gaggacctga gctcctggac cgcggcggac accgcggtc 420
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagtgaga acctacctgg 480

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agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 791  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 791  
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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcggcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
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agatcacccg gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 792  
<211> 1017  
<212> DNA  
<213> Homo sapiens

<400> 792  
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gagacctggg ccggtccca ctccatgagg tttttctaca cctccgtgtc ccggcccgcc 120  
cgcggggagc cccgcttcat ctactgggc tacgtggacg acacgcagtt cgtgaggttc 180  
gacagcgacg ccgcgagtc gagagaggag ccgcggcgcc cgtggataga gcaggagggg 240  
ccggaatatt gggaccggaa cacacagatc tgcaagacca acacacagac tgaccgagag 300  
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agcacgtacg gctgcgacgt ggggcgggac gggcgctcc tccgcgggca taaccagttc 420  
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gacaccgagg ctcagatcac ccagcgcaag tgggaggcgg ccgtgtggc ggagcagctg 540  
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gagacgtgc agcgcgcgga cccccaaag acacatgtga cccaccacc catctctgac 660  
catgaggcca cctgagggtg ctggccctg gctttctacc ctgcggagat cactctgacc 720  
tggcagcggg atggcgagga ccaaactcag gacaccgagc ttgtggagac cagaccagca 780  
ggagacagaa ccttcagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
tcttccagc caccgtccc catcgtggg attgtgtg gcttggtgt cctagcagtt 960  
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<210> 793  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 793  
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cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccg gaattattggg 180  
accggaacac acagatctgc aagaccaaca cacagactga ccgagagagc ctgcggaacc 240  
tgcggcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagttcgcc tacgacggca 360  
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agatcaccca gcgcaagtgg gaggcggccc ttgtggcgga gcagctgaga acctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 794  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 794  
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 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggagggggccg gaattattggg 180  
 accggaacac acagatctgc aagaccaaca cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
 gcgacgtggg gccggacggg gcctctctcc gcgggcataa ccagttgcc tacgacggca 360  
 aggattacat gccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga acctacctgg 480  
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 gcgcgg 546

<210> 795  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcggcgcc catgatataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
 aggatgtacg gctgcgacgt ggggcgggac gggcgctcc tccgcgggca taaccagtac 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtctctg gaccgcgcg 480  
 gacacggcgg ctcatatctc ccagcgcaag ttggaggcgg cccgtgtggc ggagcagctg 540  
 agagcctacc tggagggcga gtgcgtggag tggctccgca gatactgga gaacgggaag 600  
 gacaagctgg agcgcgtga cccccaag acacacgtga cccaccacc catctctgac 660  
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 ggagatagaa ccttcagaa gtgggcagct gtggtgtgac cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagc caccgtccc catcgtgggc attgtgtctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtgtg cgctgtgtg atgtgtagga ggaagagttc aggtgga 1017

<210> 796  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 796  
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 cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gcagcgcagc ccacgagtc gaggaaggag ccgcggcgcc catgatataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca caccctccag 360

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aggatgtacg gctgcgacgt ggggccggac ggggcctcc tccgcgggca taaccagtac 420
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gacacggcgg ctacagatctc ccagcgcaag ttggaggcgg cccgtgtggc ggagcagctg 540
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gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagtc aggtgga 1017

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<210> 797  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

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<400> 797
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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgcctg ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
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gcgacgtggg gccggacggg cgctcctcc gcgggcataa ccagtacgcc tacgacggca 360
aggattacat gcacctgaac gaggacctgc gctcctggac cgccgcggac acggcggtc 420
agatctccca gcgaagtgt gaggggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtg ctccgagat acctggagaa cggaaggac aagctggagg 540
gcgctgacct ccaaagaca cactgacct accaccccat ctctgacct gaggccacc 600
tgaggtgttg ggcctgggt ttctacctg cggagatcac actgacctgg cagcgggatg 660
gcgaggacca aactcaggac actgagcttg tggagaccag accagcagga gatagaacct 720
tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780
tacagcatga ggggctgccg aagcccctca cctgagatg gg 822

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<210> 798  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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<400> 798
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cgcggggagc ccgcttcat caccgtgggc tactggagc acacgtgtt cgtgaggtc 180
gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240
ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300
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gcctacgacg gcaaggatta catgcctctg aacgaggacc tgcgtcctg gaccgcccg 480
gacacggcgg ctacagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540
agagcctacc tggagggcga gtgcgtggag tggctccgca gatacctgga gaacgggaag 600
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ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840
tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900
tcttccagt ccaccgtccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960
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<210> 799  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 799  
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 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca caccctccag 360  
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 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgcgtcctg gaccgccgcg 480  
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 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
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 tcttccagt ccaccgtccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 800  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 800atgcgggtca cggcgccccg aacctctctc ctgctgctct ggggggcagt ggccctgacc 60  
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 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
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 ggagatagaa cttccagaa gtgggcagct gtgtgtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900  
 tcttccagt ccaccgtccc catcgtgggc attgtgtctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 801  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 801  
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 gagacctggg ctggctccca ctccatgagg tatttccaca cctccgtgtc ccggcccggc 120  
 cgcgggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
 gacagcgacg ccacgagtcc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
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 tcttccagt ccaccgtcc catcgtgggc attgttctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 802

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 802

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 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
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 ccggagtatt gggaccggga gacacagatc tccaagacca acacacagac ttaccgagag 300  
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 gacacggcgg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
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 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
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 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
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 tcttccagt ccaccgtcc catcgtgggc attgttctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgttagga ggaagagctc aggtgga 1017

<210> 803

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 803

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 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc 180  
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 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagccg 900

tcttcccagt ccaccgtccc catcgtgggc attgttgctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagtc aggtgga 1017

<210> 804  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 804  
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 cgcggggagc cccgcttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggttc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc ttcaagacca acacacagac ttaccgagag 300  
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<212> DNA  
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<210> 813  
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<212> DNA  
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&lt;210&gt; 814

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 814

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&lt;210&gt; 815

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 815

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gcgcgg                                     546

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&lt;210&gt; 816

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 816

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cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggttc    180
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<212> DNA  
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&lt;213&gt; Homo sapiens

&lt;400&gt; 823

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gcgcgg 546

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&lt;210&gt; 824

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 824

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gcgcgg 546

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&lt;210&gt; 825

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 825

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gcgctg 546

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&lt;210&gt; 826

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 826

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gcttcatcac cgtgggctac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120

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cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
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<210> 827  
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 <212> DNA  
 <213> Homo sapiens

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 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
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 agatcaccga gcgcaagtgg gaggcgggcc gtgaggcgga gcagcggaga gcctacctgg 480  
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<210> 828  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300  
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 aggattacat cgccctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
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 gcgctg 546

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 <212> DNA  
 <213> Homo sapiens

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 cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
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 gcgacgtggg gccggacggg cgctctctcc gggggcataa ccagtacgcc tacgacggca 360  
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agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggac aagctggagc 540  
gcgctg 546

<210> 830  
<211> 546  
<212> DNA  
<213> Homo sapiens

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cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
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gcgcgg 546

<210> 831  
<211> 546  
<212> DNA  
<213> Homo sapiens

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cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240  
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agatctccca gcgcaagtgg gaggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
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gcgctg 546

<210> 832  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 832  
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cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggaacc 240  
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gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggacctgc gctcctggac cgccgaggac acggcggtc 420  
agatcaccca gcgcaagtgg gaggggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cgggaaggag acgtgcagc 540  
gcgcgg 546

<210> 833  
<211> 546  
<212> DNA

<213> Homo sapiens

<400> 833

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gctcccactc catgaggtat ttccacaccg ccatgtcccg gcccgggccg ggggagcccc    60
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cgagtccgag gaaggagccg cggggcgcct ggatagagca ggagggggccg gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc    240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct    300
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aggattacat gcacctgaac gaggacctgc gctcctggac cgccgaggac acggcggctc    420
agatctccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg    480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc    540
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<210> 834

<211> 912

<212> DNA

<213> Homo sapiens

<400> 834

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gggggcagtg gccctgaccg agacctgggc tggtcccaac tccatgaggt attccacac    60
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cacgtgttcc gtgaggttcg acagcgacgc cagagtcctg aggaaggagc cgcgggcgcc    180
atggatagag caggaggggc cggagtattg ggaccgggag acacagatct ccaagaccaa    240
cacacagact taccgagaga gcctgcggaa cctgcgcggc tactacaacc agagcgaggc    300
cgggtctcac acctccaga gcatgtacgg ctgcgacgtg gggccggacg ggcgcctct    360
ccgcgggcat aaccagtacg cctacgacgg caaggattac atcgacctga acgaggacct    420
gcgctcctgg accgccggg acacggcggc tcagatcacc cagcgcaagt gggaggcggc    480
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ttctggagaa gagcagagat acacatgcca tgtacagcat gaggggctgc cgaagcccct    840
caccctgaga tgggagccgt cttccagtc caccgtccc atcgtgggca ttgttctg    900
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<210> 835

<211> 546

<212> DNA

<213> Homo sapiens

<400> 835

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gctcccactc catgaggtat ttctacacct ccgtgtcccg gcccgggccg ggggagcccc    60
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cgagtccgag gaaggagccg cggggcgcct ggatagagca ggagggggccg gagtattggg    180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc    240
tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct    300
gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca    360
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agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg    480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc    540
gcgctg                                           546

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<210> 836

<211> 546

<212> DNA

<213> Homo sapiens

<400> 836

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agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

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<210> 837

<211> 546

<212> DNA

<213> Homo sapiens

<400> 837

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tgcgcggcta ctacaaccag agcgaggccg ggtctcacac cctccagagg atgtacggct 300
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agatctccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggac aagctggagc 540
gcgctg 546

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<210> 838

<211> 546

<212> DNA

<213> Homo sapiens

<400> 838

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gctccactc catgaggtat ttccacacct ccgtgtcccg gcccgccgc ggggagcccc 60
gcttcatcac cgtgggttac gtggacgaca cgctgttcgt gaggttcgac agcgacgcca 120
cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccc gagtattggg 180
accgggagac acagatctcc aagaccaaca cacagactta ccgagagagc ctgcggaacc 240
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gcgacgtggg gccggacggg cgcctcctcc gcgggcatga ccagtacgcc tacgacggca 360
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agatcaccca gcgcaagttg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480
agggcgagtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540
gcgcgg 546

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<210> 839

<211> 1017

<212> DNA

<213> Homo sapiens

<400> 839

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atgcgggtca cggcaccg aaccgtctc ctgctgctc cggcggccct ggccctgacc 60
gagacctggg ccggtccca ctccatgagg tatttcaca ccgcatgtc ccggcccggc 120
cgcggggagc cccgttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggtc 180

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gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
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 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
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 tcttccagt ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctgctgtg atgtgttaga ggaagagctc aggtgga 1017

&lt;210&gt; 840

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 840

atgcgggtca cggcacccc aaccgtctc ctgctgctc cgccggccct ggcctgacc 60  
 gagacctggg ccggtccca ctccatgagg tatttcaca ccgcatgtc ccggcccggc 120  
 cgccgggagc ccgcttcat caccgtgggc tacgtggacg acacgtgtt cgtgaggtc 180  
 gacagcgacg ccacgagtc gaggaaggag ccgcgggcgc catggataga gcaggagggg 240  
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 tcttccagt ccaccgtccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
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&lt;210&gt; 841

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 841

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&lt;210&gt; 842

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 <213> Homo sapiens

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 gcgcgg 546

<210> 843  
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 <212> DNA  
 <213> Homo sapiens

<400> 843  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
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<210> 844  
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 <212> DNA  
 <213> Homo sapiens

<400> 844  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
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<210> 845  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 845  
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<210> 846

<211> 547

<212> DNA

<213> Homo sapiens

<400> 846

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<210> 847

<211> 546

<212> DNA

<213> Homo sapiens

<400> 847

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<210> 848

<211> 1052

<212> DNA

<213> Homo sapiens

<400> 848

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&lt;210&gt; 849

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 849

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&lt;210&gt; 850

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 851



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 <212> DNA  
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<400> 852

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 <212> DNA  
 <213> Homo sapiens

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&lt;210&gt; 857

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 857

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&lt;210&gt; 858

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 858

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<210> 861  
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 <212> DNA  
 <213> Homo sapiens

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 gcgcgg 546

<210> 862  
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 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 862

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cgcggggagc ccgcttcat caccgtgggc tacgtggacg acacgctgtt cgtgaggttc    180
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&lt;210&gt; 863

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 863

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&lt;210&gt; 864

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 864

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gcgcggg                                         546

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&lt;210&gt; 865

&lt;211&gt; 546

<212> DNA  
<213> Homo sapiens

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cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
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gcgacgtggg gccggacggg cgctctctcc gcgggtatga ccaggacgcc tacgacggca 360  
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gcgcgg 546

<210> 866  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 866  
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cgagtccgag gaaggagccg cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
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gcgcgg 546

<210> 867  
<211> 619  
<212> DNA  
<213> Homo sapiens

<400> 867  
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<210> 868  
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<212> DNA  
<213> Homo sapiens

<400> 868  
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 gcgcgg 546

<210> 869  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 869  
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 agatcaccca gcgcaagtgg gaggcgccc gtgtggcgga gcaggacaga gcctacctgg 480  
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 gcgcgg 546

<210> 870  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 870  
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<210> 871  
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 <212> DNA  
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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480  
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 gcgcgg 546

<210> 872  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<210> 873  
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 <213> Homo sapiens

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 gcgcgg 546

<210> 874  
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 <212> DNA  
 <213> Homo sapiens

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822

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<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 875  
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gcgcgg 546

<210> 876  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 876  
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gcgcgg 546

<210> 877  
<211> 546  
<212> DNA  
<213> Homo sapiens

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gcgcgg 546

<210> 878  
<211> 895  
<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 878

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&lt;210&gt; 879

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 879

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gcgcggg                                         546

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&lt;210&gt; 880

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 880

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gcgcggg                                         546

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&lt;210&gt; 881

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 881

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```

&lt;210&gt; 882

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 882

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gcgcggg 546

```

&lt;210&gt; 883

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 883

```

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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcaggacaga gcctacctgg 480
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gcgcggg 546

```

&lt;210&gt; 884

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 884

```

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```

&lt;210&gt; 885

&lt;211&gt; 543

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 885

```

gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
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gcg 543

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&lt;210&gt; 886

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 886

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gctccactc catgaggtat ttccacaccg ccatgtcccg gcccgccgc ggggagcccc 60
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gcg 546

```

&lt;210&gt; 887

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 887

```

atgcgggtca cggcgccccg aaccgtcttc ctgtctctct cgggagccct ggccctgacc    60
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```

&lt;210&gt; 888

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 888

```

gtcccactc catgaggtat ttctacaccg ccatgtcccg gcccgccgc ggggagcccc    60
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gcgcggg                                     546

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&lt;210&gt; 889

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 889

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 <212> DNA  
 <213> Homo sapiens

<400> 894  
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 <212> DNA  
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&lt;400&gt; 895

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gcgctg 546

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&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 896

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&lt;210&gt; 897

&lt;211&gt; 619

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 897

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&lt;210&gt; 898

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



&lt;400&gt; 898

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&lt;210&gt; 899

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 899

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&lt;210&gt; 900

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 901

&lt;211&gt; 820

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 901

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&lt;213&gt; Homo sapiens

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&lt;210&gt; 905

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 905

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&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 906

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&lt;400&gt; 912

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&lt;210&gt; 913

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 913

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&lt;210&gt; 914

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 914

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gcgcgg 546

<210> 917  
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<212> DNA  
<213> Homo sapiens

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cgagtccgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
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 <212> DNA  
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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 931

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&lt;210&gt; 932

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 932

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&lt;210&gt; 933

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 933

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 tccagaagtg ggcagctgtg gtggtgcctt ctggagaaga gcagagatac acatgccatg 780  
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546

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 <212> DNA  
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 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
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 catgaggcca cctgaggtg ctgggcccctg ggttcttacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacgca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttcccagt ccaccatccc catcgtgggc attgttgctg gctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc ag 1012

<210> 950  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 950  
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 ccttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacggc 120  
 cgagtccgag gacggagccc cgggcgccat ggaatagagca ggagggggcg gattattggg 180  
 accgggagac acagatctcc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggcgc ggtctcacac ttggcagacg atgtatggct 300  
 gcgacgtggg gccggacggg cgctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
 aagattacat cgccctgaac gaggacctga gctcctggac cgcggcggac acccgggctc 420  
 agatcaccca gcgcaagtgg gagggcgccc gtgagcgga gcagctgaga gctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 951  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 951  
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 gagacctggg ccggtccca ctccatgagg tatttttaca ccgcatgtc ccggcccggc 120  
 cgcgggggagc ccgcttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtcc gaggacggag ccccgggcgc catggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tccaagacca acacacagac ttaccgagag 300  
 aacctgcgga tcgcgtccg ctactacaac cagagcgagg ccgggtctca catcatccag 360  
 aggatgtatg gctgcgacct ggggcccgc gggcgctcc tccgcgggca tgaccagtcc 420  
 gcctacgacg gcaaggatta catcgccctg aacgaggacc tgagctcctg gaccgcggcg 480

gacaccgctg ctcagatcac ccagcgcaag tgggaggcgg cccgtgtggc ggagcagctg 540  
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 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cttccagaa gtgggcagct gtggtgtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgttctg gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgttagga ggaagagctc aggtgga 1017

<210> 952  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 952  
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 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 953  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 953  
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 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagaggac ctgcggaccc 240  
 tgctccgcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgcaagtgg gaggcgcccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 954  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 954  
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 gcttcatcgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctctggac cgcggcggac accgcggctc 420

agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 955  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 955  
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cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagagc ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 956  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 956  
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gcttcattgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagac acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 957  
<211> 546  
<212> DNA  
<213> Homo sapiens

<400> 957  
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gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgcc 120  
cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccg gagtattggg 180  
accggaacac acagatcttc aagaccaaca cacagactta ccgagagAAC ctgcggatcg 240  
cgctccgcta ctacaaccag agcgaggccg ggtctcacac catccagagg atgtctggct 300  
gcgacgtggg gcccgacggg cgctctctcc gcgggtataa ccagtcgcc tacgacggca 360  
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agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
gcgcgg 546

<210> 958

<211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 958  
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 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcggatcg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 959  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 959  
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 gcttcacgc agtgggctac gtggacgaca ccagttcgt gaggttcgac agcgacgccg 120  
 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatcttc aagaccaaca cacagactta ccgagagaac ctgcgcaccg 240  
 cgctccgcta ctacaaccag agcgaggccg ggtctcacat catccagagg atgtatggct 300  
 gcgacctggg gcccgacggg cgctctctcc gcgggcatga ccagtcgcc tacgacggca 360  
 aggattacat cgccctgaac gaggacctga gctcctggac cgcggcggac accgcggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcctgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 960  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 960  
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 gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc cccgcttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180  
 gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240  
 ccggagtatt gggaccgga cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgagg ctactacaac cagagcgagg ccgggtctca cacttgagc 360  
 acgatgtatg gtcgcgacct ggggcgggac gggcgctcc tccgcgggca taaccagtta 420  
 gcctacgacg gcaaggatta catgccctg aacgaggacc tgagctcctg gaccgcggcg 480  
 gacaccgagg ctgatcac ccagcgcaag tgggaggcgg ccggtgtggc ggagcagctg 540  
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 catgaggcca cctgagggtg ctgggcctg ggtcttacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtgtgac ctctggaga agagcagaga 840  
 tacacatgcc atgtacaga tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccaccatccc catcgtgggc attgtgtgct gcctggctgt cctagcagtt 960  
 gtggtcatcg gagctgtggt cgctactgtg atgtgtagga ggaagagctc aggtgga 1017

<210> 961  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 961  
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 gcttcatgc agtgggtac gtggacgaca cgcagttcgt gcggttcgac agcgacgccg 120  
 cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
 gcgacctggg gccggacggg cgcctcctcc gcgggcataa ccagttagcc tacgacggca 360  
 aggattacat gcacctgaac gaggacctga gtcctggac gcggcgccg acccgggctc 420  
 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 962  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 962  
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 gagacctggg ccggtccca ctccatgagg tattttctaca ccgcatgtc ccggcccggc 120  
 cgcggggagc ccggttcat cgcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcgagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggagtatt gggaccggaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcgg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggccggac gggcgccctc tccgcgggca taaccagtta 420  
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 gacaccgcg ctcagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
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 catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa cctccagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccacatccc catctgggc attgttctg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctactgtg atgttagga ggaagagtc aggtgga 1017

<210> 963  
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 <212> DNA  
 <213> Homo sapiens

<400> 963  
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 cgcggggagc ccggttcat cgcagtgggc tacgtggacg acacgcagtt cgtgaggttc 180  
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 gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccacc catctctgac 660

catgaggcca cctgaggtg ctgggccctg ggcttctacc ctgcggagat cacttgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
 ggagatagaa ccttcagaa gtgggcagct gtggtggtgc cttctggaga agagcagaga 840  
 tacacatgcc atgtacagca tgaggggctg ccgaagcccc tcacctgag atgggagcca 900  
 tcttccagt ccacatccc catctgggc attgttctg ccttggtgt ctagcagtt 960  
 gtggtcatcg gagctgtgt cgctactgt atgttagga ggaagagtc aggtgga 1017

<210> 964  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 964  
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 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
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 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 965  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 965  
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 cgagtccgag agaggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcgcta ctacaaccag agcgaggccg ggtctcacac cctccagagc atgtacggct 300  
 gcgacgtggg gccggacggg gcctctctcc gcgggcataa ccagtacgcc tacgacggca 360  
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 agatcaccca gcgaagtgg gaggcggccc gtgtggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgctgcagc 540  
 gcgcgg 546

<210> 966  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

<400> 966  
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 gagacctggg ccggtccca ctccatgagg tatttctaca ccgccatgtc ccggcccgc 120  
 cgcggggagc cccgttcat cgcagtggc tacgtggacg acacgcagtt cgtgaggttc 180  
 gacagcgacg ccgcagtc gagagaggag ccgcgggcgc cgtggataga gcaggagggg 240  
 ccggcgtatt gggaccgaa cacacagatc tacaaggccc aggcacagac tgaccgagag 300  
 agcctgcgga acctgcgcg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
 acgatgtatg gctgcgacct ggggcggac gggcgctcc tccgcgggca taaccagtta 420  
 gctacgacg gcaaggatta catgccctg aacgaggacc tgagtcctg gaccgcggcg 480  
 gacaccgagg ctacagatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg 540  
 agagcctacc tggagggcac gtgcgtggag tggctccgca gatactgga gaacgggaag 600

gagacgtgc agcgcgcgga cccccaaag acacacgtga cccaccaccc catctctgac 660  
 catgaggcca cctgaggtg ctgggcccctg ggcttctacc ctgcggagat cacactgacc 720  
 tggcagcggg atggcgagga ccaaactcag gacactgagc ttgtggagac cagaccagca 780  
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 tcttccagt ccaccatccc catctgggc attgtgtgtg gcttggtgt cctagcagtt 960  
 gtggtcatcg gagctgtgt cgctactgtg atgttagga ggaagagtc aggtgga 1017

<210> 967  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 967  
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 gcttcatgc agtgggtac gtggacgaca cgcagttcgt gaggttcgac agcgacgccg 120  
 cgagtcagag aggggagccg cgggcgccgt ggatagagca ggaggggccc gagtattggg 180  
 accggaacac acagatctac aaggcccagg cacagactga ccgagagagc ctgcggaacc 240  
 tgcgcggcta ctacaaccag agcgaggccg ggtctcacac ttggcagacg atgtatggct 300  
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gcgcgg

546

&lt;210&gt; 970

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 970

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&lt;210&gt; 971

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 971

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&lt;210&gt; 972

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 972

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<212> DNA  
<213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

<400> 974  
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<210> 975  
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<212> DNA  
<213> Homo sapiens

<400> 975

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 <212> DNA  
 <213> Homo sapiens

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gcgcgg 546

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<210> 978  
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 <212> DNA  
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gcgcgg 546

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&lt;210&gt; 979

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 979

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gcgcgg 546

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&lt;210&gt; 980

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 980

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gcgcgg 546

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&lt;210&gt; 981

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 981

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 <213> Homo sapiens

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<212> DNA  
<213> Homo sapiens

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<210> 986  
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<212> DNA  
<213> Homo sapiens

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<210> 987  
<211> 1017  
<212> DNA  
<213> Homo sapiens

&lt;400&gt; 987

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ccggagtatt gggacgggga gacacggaac atgaaggcct ccgcgagac ttaccgagag 300
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&lt;210&gt; 988

&lt;211&gt; 822

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 988

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&lt;210&gt; 989

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 989

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gcgcgg 546

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 <212> DNA  
 <213> Homo sapiens

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 cgagtccgag gatggcgccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
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 gcgacctggg gcccgacggg cgctcctcc gcggtataa ccagtacgcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggcggccc gtgtggcgga gcagcggaga gcctacctgg 480  
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 gcgcgg 546

<210> 991  
 <211> 1017  
 <212> DNA  
 <213> Homo sapiens

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<210> 992  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

<400> 992  
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<210> 993  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<210> 994  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<210> 995  
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 <212> DNA  
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 <213> Homo sapiens

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 tcttccagc ccaccatccc catcgtgggc attgttctg gcttggtgt cctagcagtt 960  
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 <212> DNA  
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 cgcgggggagc cccgttcat cgcagtgggc tacgtggacg acaccagtt cgtgaggttc 180  
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 ccggagtatt gggacgagga gacacggaac atgaaggcct ccgcgcagac ttaccgagag 300  
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 agatcaccca gcgaagtgg gaggcgccc gtgcggcgga gcagctgaga gcctacctgg 480  
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<210> 999  
 <211> 546  
 <212> DNA  
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<400> 999  
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 cgagtcgag gacggagccc cgggcgccat ggatagagca ggaggggccc gagtattggg 180  
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<210> 1000  
 <211> 546  
 <212> DNA  
 <213> Homo sapiens

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<210> 1001  
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 <212> DNA  
 <213> Homo sapiens

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 aacctgcga tcgcgtccg ctactacaac cagagcgagg ccgggtctca cacttggcag 360  
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<210> 1002  
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 <212> DNA  
 <213> Homo sapiens

<400> 1002  
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 gcgacgtggg gccggacggg gcctcctcc gcgggcataa ccagttcgc tacgacggca 360  
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 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 1007  
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<212> DNA  
<213> Homo sapiens

<400> 1007

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<212> DNA  
<213> Homo sapiens

<400> 1008

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<210> 1009  
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<400> 1009

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 1011

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 1012

&lt;211&gt; 1017

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 <213> Homo sapiens

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## SEQUENCE LISTING C

&lt;110&gt; CANON KABUSHIKI KAISHA

&lt;120&gt; Probe set and method for identifying HLA allele

&lt;130&gt; G10003828C

&lt;150&gt; JP2003-430556

&lt;151&gt; 2003-12-25

&lt;160&gt; 345

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

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&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 2

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gagacgtgc agcgcgcgga acaccaaag acacacgtga cccacatcc cgtctctgac    660
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 <212> DNA  
 <213> human leukocyte

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<210> 4  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

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<400> 4
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<210> 5  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 5

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gcgcgg 546

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<210> 6  
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 <212> DNA  
 <213> human leukocyte

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<400> 6
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cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg 180
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agatcaccca gcgcaagtgg gaggcgcccc gtgagggcgga gcagcggaga gcctacctgg 480
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gcgcgg 546

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<210> 7  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

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<400> 7
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gcgcgg 546

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<210> 8  
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 <212> DNA  
 <213> human leukocyte

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gcgacctggg gcccgacggg cgctcctcc gcgggtatga ccagtacgcc tacgacggca 360

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<210> 9  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

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 cgcgagagc cccacttcat cgcagtggg tacgtggac acacgcagtt cgtgcggttc 180  
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<210> 11  
 <211> 546  
 <212> DNA  
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<400> 11  
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 agatcaccca gcgaagtgg gaggcggccc gtgaggcgga gcagtggaga gcctacctgg 480  
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 gcgcgg 546

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 <211> 1015  
 <212> DNA  
 <213> human leukocyte

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 <211> 546  
 <212> DNA  
 <213> human leukocyte

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 <212> DNA  
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<210> 17  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

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gcgcgg 546

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&lt;210&gt; 18

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 18

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ctcatcgctt gtaa 1094

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&lt;210&gt; 19

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 19

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ctcatcgctt gtaa 1094

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<210> 20  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

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<400> 20
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cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
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ctcatcgctt gtaa 1094

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<210> 21  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

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<400> 21
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cgcggggagc cccacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc 180
gacagcgacg ccgcgagtc gagaggggag ccgcgggcgc cgtgggtgga gcaggagggg 240
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aggatgtatg gctgcgacgt ggggcccgc gggcgctcc tccggggta tgaccagtac 420
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ctcatcgctt gtaa 1094

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<210> 22  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 22  
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 cgagtccgag aggggagccg cggcgccgt gggtaggaca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggcca ggtctcacat catccagagg atgtatggct 300  
 gcgacgtggg acccgacggg cgctctctcc ggggtatga ccagtacgc tacgacggca 360  
 aggattacat cgcctgaac gaggatctgc gctcctggac cggcgggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 23  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

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 aggatgtatg gctgcagct ggggcccgc gggcgctcc tcccgggta tgaccgtac 420  
 gcctacgacg gcaaggatta catgccctg aacgaggatc tgcgtctctg gaccgccgcg 480  
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 agagcctacc tggagggcct gtgcgtggag tggctccgca gatacctgaa gaatgggaag 600  
 gagacgtgc agcgccgga acacccaaag acacacgtga cccaccatcc cgtctctgac 660  
 catgaggcca cctgagggtg ctgggcccgt ggtcttacc ctgcggagat cacactgacc 720  
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 ctagtgtcc taggagctgt ggtggctgt gtgatgtga ggaggaagag ctgaggtgga 1020  
 aaaggaggga gctgcttca ggctgcgtcc agcaacagt cccagggtc tgatgagtct 1080  
 ctcacgtt gtaa 1094

<210> 24  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 24  
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 cgagtccgag aggggagccg cggcgccgt gggtaggaca ggaggggccc gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
 tgcgggcta ctacaaccag agcgaggccc ggtctcacat catccagagg atgtacggct 300  
 gcgacgtggg gcccgacggg cgctctctcc ggggtatga ccagtacgc tacgacggca 360  
 aggattacat cgcctgaac gaggatctgc gctcctggac cggcgggac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480

agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc 540  
gcgcgg 546

<210> 25  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 25  
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cgagtccgag aggggagccg cgggcgccgt gggtaggca ggaggggccc gagtattggg 180  
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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gcgcgg 546

<210> 26  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 26  
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cgagtccgag aggggagccg cgggcgccgt gggtaggca ggaggggccc gagtattggg 180  
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
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aggattacat cgcctgaac gaggatctgc gtcctggac gcccgccgac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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gcgcgg 546

<210> 27  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 27  
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cgagtccgag aggggagccg cgggcgccgt gggtaggca ggaggggccc gagtattggg 180  
accgggagac acagaagtac aagcgccagg cacagactga ccgagtgaac ctgcggaacc 240  
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gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagtacgcc tacgacggca 360  
aggattacat cgcctgaac gaggatctgc gtcctggac gcccgccgac acggcggctc 420  
agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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gcgcgg 546

<210> 28  
<211> 1015

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 28

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gagacctggg ccggtcccca ctccatgagg tatttttaca ccgtgtgtc ccggcccggc      120
cgccggggagc ccaacttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc      180
gacagcgacg ccgcgagtcc gagagggggag ccgcggggcg cgtgggtgga gcaggagggg      240
ccggagtatt gggaccggga gacacagaac tacaagccc aggacagac tgaccgagtg      300
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gacacggcgg ctacgatcac ccagcgcaag tgggaggcgg cccgtgaggc ggagcagctg      540
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gagacgtgcg agcgcgcgga acacccaaag acacacgtga cccaccatcc cgtctctgac      660
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tcttccagc ccaccatccc catcgtgggc atcgttgctg gcctggctgt cctggctgtc      960
ctagctgtcc taggagctgt ggtggctgtt gtgatgtga ggaggaagag ctacg      1015

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&lt;210&gt; 29

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 29

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cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg      180
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agggcctgtg cgtggagtgg ctccgcagat acctgaagaa tgggaaggag acgctgcagc      540
gcgcggg                                           546

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&lt;210&gt; 30

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 30

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acttcatcgc agtgggctac gtggacgaca cgcagttcgt gcggttcgac agcagcgcg      120
cgagtccgag aggggagccg cgggcgccgt ggggtggagca ggaggggccc gagtattggg      180
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tgcgcggcta ctacaaccag agcgaggccg ggtctcatat catccagagg atgtatggct      300
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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg      480
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gcgcggg                                           546

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&lt;210&gt; 31

<211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 31  
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 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
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 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 32  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

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 cgagtccgag aggggagccg cggcgccgt gggtaggaca ggaggggccg gagtattggg 180  
 accgggagac acagaagtac aagcgccagg cacagactga ccgagtgagc ctgcggaacc 240  
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 gcgacgtggg gcccgacggg cgcctcctcc gcgggtatga ccagttagcc tacgacggca 360  
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 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 33  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

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 ctactgtcc taggagctgt ggtggctgtt gtgatgtgta ggaggaagag ctacgtgga 1020  
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 ctcatcgctt gtaa 1094

<210> 34  
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 <212> DNA  
 <213> human leukocyte

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<210> 35  
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 <212> DNA  
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 gcgcgg 546

<210> 36  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

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 agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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 gcgcgg 546

<210> 37  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

<400> 37

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<210> 38  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

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<400> 38
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gcgcgg 546

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<210> 39  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

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 aaaggaggga gctgctctca ggctcgtcc agcaacagtg cccagggtc tgatgagtct 1080  
 ctcatcgctt gtaa 1094

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 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 40  
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 agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagctgaga gcctacctgg 480  
 agggcacgtg cgtggagtgg ctccgcagat acctggagaa cggaaggag acgtgcagc 540  
 gcgcgg 546

<210> 41  
 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 41  
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 aggattacat cgccctgaac gaggatctgc gctcctggac cgcccggaac acggcggtc 420  
 agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagcgaga gcctacctgg 480  
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 gcgcgg 546

<210> 42  
 <211> 546  
 <212> DNA  
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 agatcaccca gcgcaagtgg gaggggccc gtgaggcgga gcagctgaga gcctacctgg 480  
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<210> 43  
<211> 546  
<212> DNA  
<213> human leukocyte

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agatcaccca gcgcaagtgg gaggcggccc gtgaggcgga gcagcggaga gcctacctgg 480  
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gcgcgg 546

<210> 44  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 44  
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cgagtccaag aggggagccg cgggagccgt ggggtggagca ggaggggccc gagtattggg 180  
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gcgcgg 546

<210> 45  
<211> 546  
<212> DNA  
<213> human leukocyte

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cgagtccaag aggggagccg cgggagccgt ggggtggagca ggaggggccc gagtattggg 180  
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gcgcgg 546

<210> 46  
<211> 1094  
<212> DNA  
<213> human leukocyte

<400> 46



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<400> 47
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gcgcgg 546

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<210> 48  
 <211> 1094  
 <212> DNA  
 <213> human leukocyte

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<400> 48
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 aaaggaggga gctgctctca ggctgcgtcc agcaacagtg cccagggctc tgatgagct 1080  
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 <211> 546  
 <212> DNA  
 <213> human leukocyte

<400> 49  
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gcgcgg

546

&lt;210&gt; 55

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 55

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gcgcgg 546

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&lt;210&gt; 56

&lt;211&gt; 942

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 56

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&lt;210&gt; 57

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 57

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gcgcgg

546

&lt;210&gt; 58

&lt;211&gt; 546

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&lt;213&gt; human leukocyte

&lt;400&gt; 58

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gcgcgg 546

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&lt;210&gt; 59

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 59

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gcgcgg 546

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&lt;210&gt; 60

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 60

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 gcgcag 546

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<210> 71

<211> 546  
 <212> DNA  
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 <212> DNA  
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 <212> DNA  
 <213> human leukocyte

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<212> DNA  
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<212> DNA  
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gcacag 546

<210> 76  
<211> 546  
<212> DNA  
<213> human leukocyte

<400> 76  
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<210> 77  
<211> 546  
<212> DNA  
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<400> 77

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<212> DNA  
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<212> DNA  
<213> human leukocyte

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<210> 85  
 <211> 546

<212> DNA  
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<400> 85

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<212> DNA  
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<400> 86

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gcgcgg 546

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<210> 87  
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<212> DNA  
<213> human leukocyte

<400> 87

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gcgcgg 546

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<212> DNA  
<213> human leukocyte

<400> 88

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 <212> DNA  
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 <212> DNA  
 <213> human leukocyte

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 ctcacgctt gtaa 1094

<210> 91  
 <211> 1094  
 <212> DNA



&lt;213&gt; human leukocyte

&lt;400&gt; 91

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cgcggagagc cccgttcat cgcagtgggc tacgtggacg acacgcagtt cgtgcggttc    180
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ctcatcgctt gtaa                                     1094

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&lt;210&gt; 92

&lt;211&gt; 546

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 92

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cgagtccaag aggggagccg cgggcgccgt gggtggagca ggagggggccg gagtattggg    180
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gcgcggg                                     546

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&lt;210&gt; 93

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 93

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 cgagtccaag aggggagccg cgggcgccgt ggttgagca ggaggggccc gagtattggg 180  
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<210> 97  
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 <212> DNA  
 <213> human leukocyte

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 <211> 546  
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<400> 98
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<211> 546  
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 ctactgtcc taggagctgt ggtggctgt gtgatgtga ggaggaagag ctacaggtga 1020  
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&lt;210&gt; 105

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&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 105

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gcgcgg 546

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&lt;210&gt; 106

&lt;211&gt; 1094

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

&lt;400&gt; 106

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&lt;211&gt; 1015

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&lt;211&gt; 895

&lt;212&gt; DNA

&lt;213&gt; human leukocyte

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tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca	180
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tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca	180
tcttgaggga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg	240
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<212> DNA

<213> Homo sapiens

<400> 34

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<212> DNA

<213> Homo sapiens

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tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcttgaggga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
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<211> 249

<212> DNA

<213> Homo sapiens

<400> 36

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gtgacggagc tggggcggcc tgataggag tactggaaca gccagaagga catcctggag	180
gaggagcggg cagtccgga cagggtatgc agacacaact acgagctgga cgaggccgtg	240
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<210> 37

<211> 264

<212> DNA

<213> Homo sapiens

<400> 37

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tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca	180
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<210> 40  
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 tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
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<210> 42  
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 <212> DNA  
 <213> Homo sapiens

<400> 42  
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tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg	240
aggccgtgac cctgcag	257
<210> 43	
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<213> Homo sapiens	
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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc	180
tcctggagga gagcgggca gtgccggaca ggatgtgcag acacaactac gagctggtcg	240
ggcccatgac cctgcagcgc cgag	264
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<213> Homo sapiens	
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tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca	180
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tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggaca	180
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<210> 46	
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gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga catcctggag	180
gagaagcggg cagtgccgga caggatgtgc agacacaact acgagctggt cgggccccatg	240
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<213> Homo sapiens

<400> 47

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tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 48

<211> 264

<212> DNA

<213> Homo sapiens

<400> 48

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tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgc cgag	264

<210> 49

<211> 263

<212> DNA

<213> Homo sapiens

<400> 49

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tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc	180
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
aggccgtgac cctgcagcgt cga	263

<210> 50

<211> 264

<212> DNA

<213> Homo sapiens

<400> 50

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tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca	180
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg	240
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<210> 51

<211> 264

<212> DNA

<213> Homo sapiens

<400> 51

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tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca	180
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<210> 52  
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<400> 52  
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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 53  
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tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
ggcccatgac cctgcagcgc cgag 264

<210> 54  
<211> 264  
<212> DNA  
<213> Homo sapiens

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tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggacc 180  
tcctggagga gaagcgggca gtgccggaca gggtatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcagcgc cgag 264

<210> 55  
<211> 256  
<212> DNA  
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gtgacggagc tggggcggcc tgctcggag tactggaaca gccagaagga catcctggag 180  
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acctgcagc gccgag 256

<210> 56  
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<213> Homo sapiens

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gtgacggagc tggggcgccc tgctgcggag tactggaaca gccagaagga catcctggag 180  
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 accctgcage gccga 255

<210> 57  
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 <212> DNA  
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 ggcccatgac cctgcagcgc cgag 264

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 aggccgtgac cctgcagcgc cgag 264

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<213> Homo sapiens

<400> 61

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tcttgaggga gaagcgggca ttgccggaca ggatgtgcag acacaactac gagctggacg 240
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<210> 62

<211> 264

<212> DNA

<213> Homo sapiens

<400> 62

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<210> 63

<211> 257

<212> DNA

<213> Homo sapiens

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tcttgaggga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240
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<210> 64

<211> 257

<212> DNA

<213> Homo sapiens

<400> 64

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tcttgaggga gaagcgggca ttgccggaca ggatgtgcag acacaactac gagctggtcg 240
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<210> 65

<211> 257

<212> DNA

<213> Homo sapiens

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 <212> DNA  
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 aggccgtgac cctgcagcgc cgag 264

<210> 67  
 <211> 256  
 <212> DNA  
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 gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga catcctggag 180  
 gaggagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccgtg 240  
 accctgcagc gccgag 256

<210> 68  
 <211> 249  
 <212> DNA  
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<210> 69  
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 tccgggcggt gacggagctg gggcggcctg ctgcccagta ctggaacagc cagaaggaca 180  
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 ggcccatgac cctgcagcgc cga 263

<210> 70  
 <211> 263  
 <212> DNA  
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<400> 70  
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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcttgaggga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggctg 240  
ggcccatgac cctgcagcgc cga 263

<210> 71  
<211> 261  
<212> DNA  
<213> Homo sapiens

<400> 71  
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cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacttc 180  
ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga gctgggcggg 240  
ccatgacctc tgcagcgccg a 261

<210> 72  
<211> 264  
<212> DNA  
<213> Homo sapiens

<400> 72  
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tccggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180  
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<212> DNA  
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<212> DNA  
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ggcccatgac cctgcagcgc cgag 264

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<213> Homo sapiens

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ggcccatgac cctgcagcgc cgag 264
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<211> 255

<212> DNA

<213> Homo sapiens

<400> 76

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cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacatc 180
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<210> 77

<211> 255

<212> DNA

<213> Homo sapiens

<400> 77

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cgggcggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacatc 180
ctggaggaga agcgggcagt gccggacagg atgtgcagac acaactacga gctgggcggg 240
cccatgacct tgcag 255
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<210> 78

<211> 255

<212> DNA

<213> Homo sapiens

<400> 78

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cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca gaaggacatc 180
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<210> 79

<211> 264

<212> DNA

<213> Homo sapiens

<400> 79

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ggcccatgac cctgcagcgc cgag 264
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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggacc 180  
tcctggagga gaagcgggca gtgccggaca gggatatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcag 257

<210> 81  
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<212> DNA  
<213> Homo sapiens

<400> 81  
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tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
tcctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctggtcg 240  
ggcccatgac cctgcag 257

<210> 82  
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tccgggcggt gacggagctg gggcggcctg aggcggagta ctggaacagc cagaaggaca 180  
tcctggagga ggagcgggca gtgccggaca gggatatgcag acacaactac gagctggacg 240  
aggccgtgac cctgcag 257

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tccgggcggt gacggagctg gggcggcctg ctgcggagta ctggaacagc cagaaggaca 180  
tcctggagga ggagcgggca gtgccggaca ggatgtgcag acacaactac gagctggacg 240  
aggccgtgac cctgcag 257

<210> 84  
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<212> DNA  
<213> Homo sapiens

<400> 84  
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gtgacggagc tggggcggcc tgctgcggag tactggaaca gccagaagga cctcctggag 180  
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccgtg 240  
accctgcag 249

<210> 85  
<211> 238  
<212> DNA  
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gtgacggagc tggggcggcc tgatgaggac tactggaaca gccagaagga cctcctggag 180  
gagaagcggg cagtgccgga cagggtatgc agacacaact acgagctgga cgaggccg 238

<210> 86  
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<212> DNA  
<213> Homo sapiens

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cgggcgggtga cggagctggg gcggcctgct gcggagtact ggaacagcca gaaggacatc 180  
ctggaggagg agcgggcagt gccggacagg atgtgcagac acaactacga gctggacgag 240  
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<210> 87  
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<212> DNA  
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tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggacc 180  
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<210> 88  
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tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
acctggagga gaagcgggca gtgccggaca ggatgtgcag acacaactac gagctgggcg 240  
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<210> 89  
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 tccgggcggt gacggagctg gggcggcctg atgaggacta ctggaacagc cagaaggacc 180  
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 tccgggcggt gacggagctg gggcggcctg atgaggagta ctggaacagc cagaaggaca 180  
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<213> Homo sapiens

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<213> Homo sapiens

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<211> 264

<212> DNA

<213> Homo sapiens

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<211> 264

<212> DNA

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<211> 264

<212> DNA

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aggccgtgac cctgcagcgc cgag	264

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<210> 109  
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 tccgggcggt gacggagctg gggcggcctg aggaggagta ctggaacagc cagaaggaca 180  
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aggccgtgac cctgcagcgc cga

263

&lt;210&gt; 113

&lt;211&gt; 264

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 113

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&lt;210&gt; 115

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23

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<212> DNA

<213> Homo sapiens

<400> 181

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<212> DNA

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 cccgtgacac tgggtcagcc caacatctc atctgtcttg tggacaacat ctttctcct 420  
 gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaaggtgt ttctgagacc 480  
 agcttctct ccaagagtga tcattccttc ttcaagatca gttacctcac cctcctcct 540  
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 aaacactggg agcctgagat tccagccct atgtcagagc tcacagagac tgtggtctgc 660  
 gccctgggat tgtctgtggg cctcgtgggc attgtggtgg gcactgtctt catcatccga 720  
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<210> 185  
 <211> 258  
 <212> DNA  
 <213> Homo sapiens

<400> 185  
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 ccctctggcc agtacacca tgaatttgat ggagatgagc agttctacgt ggacctgggg 120  
 aggaaggaga ctgtctggtg ttgcctgtt ctacagacaat ttagatttga ccgcaattt 180  
 gcactgacaa acatcgctgt cctaaaacat aacttgaaca gtctgattaa acgctccaac 240  
 tctaccgtg ctaccaat 258

<210> 186  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 186  
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 gatgagcagt tctacgtgga cctggggagg aaggagactg tctggtgtt gcctgttctc 120  
 agacaattta gatttgaccg gcaatttgca ctgacaaaca tcgtgtctt aaacataac 180  
 ttgaacagtc tgattaaacg ctccaactct accgctgcta cc 222

<210> 187  
 <211> 765  
 <212> DNA  
 <213> Homo sapiens

<400> 187  
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 tcttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca gttctacgtg 180  
 gacctgggga ggaaggagac tgtctgggtg ttgcctgttc tcagacaatt tagatttgac 240  
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 cgctccaact ctaccgtgc taccaatgag gttctgagg tcacagtgtt ttccaagtct 360  
 cccgtgacac tgggtcagcc caacatctc atctgtcttg tggacaacat ctttctcct 420  
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agcttcctct ccaagagtga tcattccttc ttcaagatca gttacctcac cctcctccct 540  
 tcttttgagg agagttaga ctgcaagggtg gagcactggg gcctggacaa gcctcttctg 600  
 aaacactggg agcctgagat tccagccct atgtcagagc tcacagagac tgtggtctgc 660  
 gccttgggat tgtctgtggg cctcgtgggc attgtggtgg gcaactgtctt catcatccga 720  
 ggctgcgtt cagttggtgc ttccagacac caagggccct tgtga 765

<210> 188  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 188  
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 acacccatga atttgatgga gatgagcagt tctacgtgga cctggggagg aaggagactg 120  
 tctggtgttt gcctgttctc agacaattta gatttgaccc gcaatttgca ctgacaaaca 180  
 tcgctgtcct aaaacataac ttgaacagtc tgattaaacg ctccaactct accgctgcta 240  
 ccaatg 246

<210> 189  
 <211> 765  
 <212> DNA  
 <213> Homo sapiens

<400> 189  
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 tcttacggtc cctctggcca gtacacccat gaatttgatg gagatgagca gttctacgtg 180  
 gacctgggga ggaaggagac tgtctggtgt ttgctgttc tcagacaatt tagatttgac 240  
 ccgcaatttg cactgacaaa catcgtgtgc ctaaaacata acttgaacag tctgattaaa 300  
 cgctccaact ctaccgtgc taccaatgag gttcctgagg tcacagtgtt ttccaagtct 360  
 cccgtgacac tgggtcagcc caacatcctc atctgtcttg tggacaacat ctttctcct 420  
 gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaagggtg ttctgagacc 480  
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 aaacactggg agcctgagat tccagccct atgtcagagc tcacagagac tgtggtctgc 660  
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<210> 190  
 <211> 765  
 <212> DNA  
 <213> Homo sapiens

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 tcttacggtc cctctggcca gttacccat gaatttgatg gagacgagca gttctacgtg 180  
 gacctgggga ggaaggagac tgtctggtgt ttgctgttc tcagacaatt tagatttgac 240  
 ccgcaatttg cactgacaaa catcgtgtg acaaaacaca acttgaacat cctgattaaa 300  
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 cccgtgacgc tgggtcagcc caacaccctc atctgtcttg tggacaacat ctttctcct 420  
 gtggtcaaca tcacatggct gagcaatggg cactcagtca cagaagggtg ttctgagacc 480  
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 tctgctgatg agatttatga ctgcaagggtg gagcactggg gcctggacga gcctcttctg 600  
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<210> 191  
 <211> 227  
 <212> DNA  
 <213> Homo sapiens

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 agacaattta gatttgaccc gcaatttgca ctgacaaaca tcgccgtgac aaaacacaac 180  
 ttgaacatcc tgattaaacg ctccaactct accgctgcta ccaatga 227

<210> 192  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 192  
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 gcaggggccc cctgttgccg agtactggaa cagccagaag gaagtcctgg agggggcccg 180  
 ggcgtcgggtg gacaggggtg gcagacacaa ctacgaggtg gcgtaccgcg ggatcctgca 240  
 gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
 caacctgctg atctgctcgg tgacagattt ctatccaagc cagatcaaag tccggtggtt 360  
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 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac 480  
 ctgccacgtg gagcaccaca gcctccagag cccatcacc gtggagtgg 529

<210> 193  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

<400> 193  
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 gcaggggccc cctgttgccg agtactggaa cagccagaag gaagtcctgg agggggcccg 180  
 ggcgtcgggtg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg ggatcctgca 240  
 gagg 244

<210> 194  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 194  
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 taaccgagag gactacgtgc gcttcgacag cgacgtgggg gtgtaccggg cgtgacgcc 120  
 gcaggggccc cctagcggc agtactggaa cagccagaag gaagtcctgg agggggcccg 180  
 ggcgtcgggtg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg ggatcctgca 240  
 gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
 caacctgctg atctgctcgg tgacagattt ctatccaagc cagatcaaag tccggtggtt 360  
 tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctatta ggaacggtga 420  
 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac 480  
 ctgccacgtg gagcaccaca gcctccagag cccatcacc gtggagtgg 529

<210> 195  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

<400> 195  
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 gcagggggcgg cctagcgcg agtactggaa cagccagaag gaagtcctgg agggggcccc 180  
 ggctgcggg gacagagtgt gcagacacaa ctacgaggtg gcgtaccgcg ggatcctgca 240  
 gagga 245

<210> 196  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 196  
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 gcagggggcgg cctgacgccg agtactggaa cagccagaag gaagtcctgg agggggcccc 180  
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 caacctgtg atctgtcgg tgacagattt ctatccaagc agatcaaag tccggtggtt 360  
 tcggaatgat caggaggaga cagccggcgt tgtgtccacc ccctcatta ggaacggtga 420  
 ctggaccttc cagatcctgg tgatgtgga aatgactccc cagcgtggag atgtctacac 480  
 ctgccacgtg gagcaccca gcctccagag cccatcacc gtggagtgg 529

<210> 197  
 <211> 148  
 <212> DNA  
 <213> Homo sapiens

<400> 197  
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 cgacagcgac gtgggggtgt atcgggcggt gacgccgag gggcggcctg atccgagta 120  
 ctggaacagc cagaaggaag tcttgag 148

<210> 198  
 <211> 212  
 <212> DNA  
 <213> Homo sapiens

<400> 198  
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 taaccgagaa gactacgtgc gcttcgacag cgacgtgggg gtgtaccggg cggtagacgc 120  
 gcagggggcgg cctagcgcg agtactggaa cagccagaag gacatcctgg aggaggaccg 180  
 ggctgcggg gacagggtgt gcagacacaa ct 212

<210> 199  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 199  
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ggcggcggtg gacaggggtg gcagacacaa ctaccagtg gagtccgca cgacctgca 240
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tcggaatgac caggaggaga cagctggcgt tgtgtccacc ccccttatta ggaatggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480
ctgccacgtg gagcacccca gctccagag cccatcacc gtggagtgg 529

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<210> 200  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

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<400> 200gggcatgtgc tacttcacca acgggacaga gcgcgtgcgt cttgtgagca gaagcatcta 60
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gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300
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ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480
ctgccacgtg gagcacccca gctccagag cccatcacc gtggagtgg 529

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<210> 201  
 <211> 449  
 <212> DNA  
 <213> Homo sapiens

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<400> 201
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gctggggctg cctgacgccg agtactggaa cagccagaag gacatcctgg agaggaaacg 180
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gcggcgacct gatccaggac agaggccctc aaccaccaca acctgctggt ctgctcggtg 300
acagatttct atccagccca gatcaaagtc cgggtggttc ggaatggcca ggaggagaca 360
gctggcgttg tgtccacccc cttattagg aatggtgact ggaccttcca gatcctggtg 420
atgctggaaa tgactcccca gcgtggaga 449

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<210> 202  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

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<400> 202
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taaccgagag gactacgac gcttcgacag cgacgtggag gtgtaccggg cggtagcgc 120
gctggggcgg cctgacgccg agtactggaa cagccagaag gaagtctgg agaggaccg 180
ggcggaggtg gacacgggtg gcagacacaa ctaccagtg gagtccgca cgacctgca 240
gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360
tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta ggaacggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag acgtctacac 480
ctgccacgtg gagcacccca gctccagaa cccatcacc gtggagtgg 529

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<210> 203

<211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 203  
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 gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
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<210> 204  
 <211> 529  
 <212> DNA  
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<400> 204  
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 gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
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 gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
 caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
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 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480  
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 <211> 529  
 <212> DNA  
 <213> Homo sapiens

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 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480  
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<210> 206  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

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 gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
 ggccggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
 gcggcgag 248

<210> 207

<211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 207  
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 taaccgagag gactacgcac gcttcgacag cgacgtggag gtgtaccggg cggtagacgcc 120  
 gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180  
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 gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
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 tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta ggaacggtga 420  
 ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag acgtctacac 480  
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<210> 208  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 208  
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 gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180  
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<210> 209  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

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 gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180  
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<210> 210  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 210gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60  
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 gctggggccg cctgacgccg agtactggaa tagccagaag gacatcctgg aggaggaccg 180  
 gggtcggtg gacaccgtat gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
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<210> 211  
 <211> 247

<212> DNA  
<213> Homo sapiens

<400> 211  
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gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
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gcggcga 247

<210> 212  
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<212> DNA  
<213> Homo sapiens

<400> 212  
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gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg aggggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
gcggcgag 248

<210> 213  
<211> 526  
<212> DNA  
<213> Homo sapiens

<400> 213  
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gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
gcggcgagtg gagccacag tgaccatctc ccatccagg acagaggccc tcaaccacca 300  
caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
tcggaatgac caggaggaga caaccggcgt tgtgtccacc ccccttatta ggaacggtga 420  
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatgccg tctacacctg 480  
ccacgtggag caccacagcc tccagaacct catcacgtg gagggtg 526

<210> 214  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 214  
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gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttgca 240  
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ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag acgtctacac 480  
ctgccacgtg gagcacccca gctccagaa ccccatcacc gtggagtg 529

<210> 215  
<211> 248

<212> DNA  
<213> Homo sapiens

<400> 215  
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gctggggccg cctgccgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttga 240  
gcggcgag 248

<210> 216  
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<212> DNA  
<213> Homo sapiens

<400> 216  
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gctggggccg cctgacgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
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gcggcgag 248

<210> 217  
<211> 248  
<212> DNA  
<213> Homo sapiens

<400> 217  
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taaccgagag gactacgcac gcttcgacag cgacgtggag gtgtaccggg cggtagacgc 120  
gctggggccg cctgacgccg agtactggaa cagccagaag gaagacctgg agaggaccgc 180  
ggcggagttg gacacggtgt gcagacacaa ctaccagttg gagtccgca cgaccttga 240  
gcggcgag 248

<210> 218  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 218  
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taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtatcggg cggtagacgc 120  
gctggggccg cttgacgccg agtactggaa tagccagaag gacatcctgg aggaggaccg 180  
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gcggcgagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300  
caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360  
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ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480  
ctgccacgtg gagcaccca gcctccagaa cccatcatc gtggagtgg 529

<210> 219  
<211> 529  
<212> DNA  
<213> Homo sapiens

<400> 219

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gggcatgtgc tacttcacca acgggacgga gcgcgtgcgg ggtgtgacca gatacatcta 60
taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtatcggg cggtgacgcc 120
gctggggcgg cttgacgccg agtactggaa tagccagaag gacatcctgg aggaggaccg 180
ggcgtcggtg gacaccgtat gcagacacaa ctaccagttg gagctccgca cgaccttga 240
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caacctgctg gtctgctcag tgacagattt ctatccagcc cagatcaaag tccggtggtt 360
tcggaatgac caggaggaga caactggcgt tgtgtccacc cccttatta ggaacggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcgtggag acgtctacac 480
ctgccacgtg gagcacccca gcctccagaa cccatcatc gtggagtgg 529

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<210> 220  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

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<400> 220
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taaccgagag gaggacgtgc gcttcgacag cgacgtgggg gtgtatcggg cggtgacgcc 120
gcagggggcgg cctgacgccg agtactggaa cagccagaag gacatcctgg agaggaccg 180
agcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca 240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtctgctcgg tgacagattt ctatccagcc cagatcaaag tccggtggtt 360
tcggaatgac caggaggaga cagctggcgt tgtgtccacc cccttatta ggaacggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag acgtctacac 480
ctgccacgtg gagcacccca gcctccagag cccatcacc gtggagtgg 529

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<210> 221  
 <211> 204  
 <212> DNA  
 <213> Homo sapiens

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<400> 221
gccatgtgct acttcaccaa cgggacggag gcgcgtgcgt tatgtgaccag atacatctat 60
aaccgagagg aggacgtgcg cttcgacagc gacgtggggg tgtatcgggc ggtgacccc 120
cagggggcgg cttgacgccg gtactggaac agccagaagg acatcctgga gaggaccga 180
gcggagttgg acacggtgtg caga 204

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<210> 222  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

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<400> 222
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taaccgagag gaggacgtgc gcttcgacag cgacgtgggg gtgtatcggg cggtgacgcc 120
gcagggggcgg cctgacgccg agtactggaa cagccagaag gacatcctgg agaggaccg 180
agcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca 240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca 300
caacctgctg gtctgctcgg tgacagattt ctatccagcc cagatcaaag tccggtggtt 360
tcggaatgac caggaagaga cagctggcgt tgtgtccacc cccttatta ggaacggtga 420
ctggaccttc cagatcctgg tgatgctgga aatgactccc cagcatggag acgtctacac 480
ctgccacgtg gagcacccca gcctccagag cccatcacc gtggagtgg 529

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<210> 223  
 <211> 529  
 <212> DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 223

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taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc	120
gcaggggacgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg	180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg ggatcttgca	240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca	300
caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag tccggtggtt	360
tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctatta ggaatggtga	420
ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac	480
ctgccacgtg gagcaccca gcctccagag ccccatcacc gtggagtgg	529

&lt;210&gt; 224

&lt;211&gt; 529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 224

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta	60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc	120
gcaggggacgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg	180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg ggatcttgca	240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc tcaaccacca	300
caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag tccggtggtt	360
tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctatta ggaatggtga	420
ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac	480
ctgccacgtg gagcaccca gcctccagag ccccatcacc gtggagtgg	529

&lt;210&gt; 225

&lt;211&gt; 529

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 225

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta	60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc	120
gcaggggacgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggacccg	180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagcgc ggatcctgca	240
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caacctgctg gtctgctcgg tgacagattt ctatccaggc cagatcaaag tccagtgtt	360
tcggaatgat caggaggaga cagccggcgt tgtgtccacc cccctatta ggaatggtga	420
ctggactttc cagatcctgg tgatgctgga aatgactccc cagcgtggag atgtctacac	480
ctgccacgtg gagcaccca gcctccagag ccccatcacc gtggagtgg	529

&lt;210&gt; 226

&lt;211&gt; 289

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 226

gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta	60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc	120
gcaggggacgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggacccg	180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagcgc ggatcctgca	240
gaggagagtg gagccacag tgaccatctc cccatccagg acagaggccc	289

<210> 227  
 <211> 289  
 <212> DNA  
 <213> Homo sapiens

<400> 227  
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 taaccgagag gagtacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtgacgcc 120  
 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggaccgg 180  
 ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgg ggatcctgca 240  
 gaggagagtg gagccacag tgaccatctc cccatccagg acagaggcc 289

<210> 228  
 <211> 173  
 <212> DNA  
 <213> Homo sapiens

<400> 228  
 ggacggagcg cgtgcgtctt gtaaccagat acatctataa ccgagaggag tacgcgcgt 60  
 tcgacagcga cgtgggggtg taccgggcgg tgacccgca ggggcggcct gtcgccgagt 120  
 actggaacag ccagaaggaa gtcctggaga ggaccgggc ggagttggac acg 173

<210> 229  
 <211> 176  
 <212> DNA  
 <213> Homo sapiens

<400> 229  
 ggacggagcg cgtgcgtctt gtaaccagat acatctataa ccgagaggag tacgcgcgt 60  
 tcgacagcga cgtgggggtg taccgggcgg tgacccgca ggggcggcct gttgccgagt 120  
 actggaacag ccagaaggaa gtcctggaga ggaccgggc ggcggtggac aggggtg 176

<210> 230  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 230gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta 60  
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 gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg agaggaccgg 180  
 ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgg ggatcc 236

<210> 231  
 <211> 236  
 <212> DNA  
 <213> Homo sapiens

<400> 231  
 gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta 60  
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 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg aggggaccgg 180  
 ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgtcccg ggatct 236

<210> 232

<211> 529  
 <212> DNA  
 <213> Homo sapiens

<400> 232  
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 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggaccgg 180  
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 ctggacttcc cagatcctgg tgatgtgga aatgactccc cagcgtggag atgtctacac 480  
 ctgccacgtg gaggaccca gcctccagag cccatcacc gtggagtgg 529

<210> 233  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 233  
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 gcagggggcgg cctagcgccg agtactggaa cagccagaag gaagtcctgg aggggaccgg 180  
 ggccgagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca 240  
 gaggagag 248

<210> 234  
 <211> 244  
 <212> DNA  
 <213> Homo sapiens

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 gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggaccgg 180  
 ggccgagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca 240  
 gagg 244

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 <211> 248  
 <212> DNA  
 <213> Homo sapiens

<400> 235  
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 gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggaccgg 180  
 ggccgagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcttgca 240  
 gaggagag 248

<210> 236  
 <211> 529  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 236

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gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccggg cggtagacgc 120
gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180
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ctgccacgtg gagcacccca gcctccagag cccatcacc gtggagtgg 529

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&lt;210&gt; 237

&lt;211&gt; 234

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 237

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gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggat 234

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&lt;210&gt; 238

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 238

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gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtaacca gacacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcctgca 240
gaggagag 248

```

&lt;210&gt; 239

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 239

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gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg agaggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gggtagccgc ggatcctgca 240
gaggagag 248

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&lt;210&gt; 240

&lt;211&gt; 248

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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<400> 240gggcatgtgc tacttcacca acgggacgga gcgcgtgcgt cttgtgacca gatacatcta 60
taaccgagag gactacgcgc gcttcgacag cgacgtgggg gtgtaccgcg cggtagacgc 120
gcagggggcgg cctgatgccg agaactggaa cagccagaag gaagtcctgg aggggacccg 180
ggcggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttccgcg ggatcctgca 240
gaggagag 248

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<210> 241  
 <211> 229  
 <212> DNA  
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 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agggggcccc 180  
 ggccggagttg gacacggtgt gcagacacaa ctacgaggtg gggtaccgc 229

<210> 242  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 242  
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 gcagggggcgg cctgttgccg agtactggaa cagccagaag gaagtcctgg agaggaccgc 180  
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 gaggag 246

<210> 243  
 <211> 248  
 <212> DNA  
 <213> Homo sapiens

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 gctggggcgg cctgatgccg agtactggaa cagccagaag gaagtcctgg aggggaccgc 180  
 ggccggagttg gacacggtgt gcagacacaa ctacgaggtg gcgttcgcg ggatcttgca 240  
 gaggag 248

<210> 244  
 <211> 229  
 <212> DNA  
 <213> Homo sapiens

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## SEQUENCE LISTING DR

&lt;110&gt; CANON KABUSHIKI KAISHA

&lt;120&gt; Probe set and method for identifying HLA allele

&lt;130&gt; g10003828DR

&lt;150&gt; JP2003-430558

&lt;151&gt; 2003-12-25

&lt;160&gt; 827

&lt;170&gt; PatentIn version 3.2

&lt;210&gt; 1

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 39  
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 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 40  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 40  
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 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagaag cggggccggg tggacaacta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 41  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 41  
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 gtgtgagct cccactggc tttgctggg gacaccgac cacgtttctt ggagcaggtt 120  
 aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttctgga cagatacttc 180  
 taccaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacctcct ggagcagaag 300  
 cgggcccggg tggacaccta ctgcagacac aactacgggg ttggtgagag cttcacagtg 360  
 cagcggcgag 370

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 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 42  
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 ggttctctgga cagatacttc taccaccaag aagagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagaag cgggcccggg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 43  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 43  
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 aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcttga cagatacttc 180  
 taccaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctct ggaagacgag 300  
 cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 44  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 44  
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 acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagta cgtgcgcttc 120  
 gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
 tggaacagcc agaaggacct cctggagcag aggcgggccg aggtggacac ctactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 45  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 45  
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 ggttcttga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgacgc tgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 46  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 46  
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 gtgctgagct cccactggc ttggctggg gacacccgac cacgtttctt ggagcaggtt 120  
 aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcttga cagatacttc 180  
 taccaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctctt ggagcagagg 300  
 cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 47  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens

<400> 47

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 acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagta cgtgcgcttc 120  
 gacagcgacg tgggggagta cggggcgggtg acggagctgg ggcggcctag cgccgagtac 180  
 tggaacagcc agaaggacct cctggagcag aggcggggccg cgggtggacac ctactgcaga 240  
 cacaactacg gggttggtga gagcttcaca gtgcagcggc ga 282

<210> 48  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

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 ggttctctgga cagatacttc taccaccaag aggagtacgt gcggttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 49  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 49  
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 ggttctctgga cagatacttc taccaccaag aggagtacgt gcggttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcgacgag 270

<210> 50  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

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 ggttctctgga cagatacttc taccaccaag aggagtacgt gcggttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacggtg cagcggcgag 270

<210> 51  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

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 acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagtc cgtgcgcttc 120  
 gacagcgacg tgggggagta cggggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
 tggaacagcc agaaggacct cctggagcag aggcggggccg aggtggacac ctactgcaga 240  
 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 52  
 <211> 282  
 <212> DNA  
 <213> Homo sapiens



&lt;400&gt; 52

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 acggagcggg tgcggttctt ggacagatac ttctatcacc aagaggagta cgtgcgttc 120  
 gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga tgccgagtac 180  
 tggaaacagcc agaaggacct cctggagcag aggcggggccg aggtggacac ctactgcaga 240  
 cacaactacg gggttggtga gagcttcaca gtcagcggc ga 282

&lt;210&gt; 53

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 53

cacgtttctt ggagcaggtt aaacatgagt gtcatttctt caacgggacg gagcgggtgc 60  
 ggttctctgga cagatacttc taccaccaag aggtgtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcgggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctcct ggagcagaga cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcgg 266

&lt;210&gt; 54

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 54

tttcttgag caggttaaac atgagtgtca tttcttcaac gggacggagc ggggtgcggtt 60  
 cctggacaga tacttctatc accaagagga gtacgtgcgc ttgacagcg acgtggggga 120  
 gtaccgggcg gtgacggagc tggggcgccc tgatgccgag tactggaaca gccagaagga 180  
 cctcttgag cagaggcggg ccgcggtgga cacctactgc agacacaact acgggggttg 240  
 tgagagcttc acagtgcagc ggcgag 266

&lt;210&gt; 55

&lt;211&gt; 225

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 55

tgagtgtcat ttcttcaac ggacggagcg ggtgcggttc ctggacagat acttctatca 60  
 ccaagaggag tacgtgcgct tcgacagcga cgtgggggag taccgggcgg tgacggagct 120  
 ggggcgccct agcgccgagt actggaacag ccagaaggac ctctggagc agaagcgggc 180  
 cgcggtggac acctactgca gacacaacta cggggttggt gagag 225

&lt;210&gt; 56

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 56

tttcttgag caggttaaac atgagtgtca tttcttcaac gggacggagc ggggtgcggtt 60  
 cctggacaga tacttctatc accaagagga gtacgtgcgc ttgacagcg acgtggggga 120  
 gtaccgggcg gtgacggagc tggggcgccc tagcgccgag tactggaaca gccagaagga 180  
 cctcttgag cagaggcggg ccgcggtgga cacctactgc agacacaact acggggttgt 240  
 ggagagcttc acagtgcagc ggcgag 266

&lt;210&gt; 57

<211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 57  
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 gtgctgagct cccactggc ttggctggg gacacccgac cacgtttctt ggagcaggtt 120  
 aaacatgagt gtcatttctt caacgggacg gagcgggtgc ggttcttga cagatacttc 180  
 tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg gggagtaccg ggcgggtgacg 240  
 gagctggggc ggcttagcgc cgagtactgg aacagccaga aggacctct ggagcagagg 300  
 cgggccgagg tggacaccta ctgcagacac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 58  
 <211> 261  
 <212> DNA  
 <213> Homo sapiens

<400> 58  
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 ctggacagat acttctatca ccaagaggag tacgtgcgct tcgacagcga cgtggggggag 120  
 taccggggcg tgacggagct ggggcggcct agcggcgagt actggaacag ccagaaggac 180  
 atcttgaag acaggcgggc cctggtggac acctactgca gacacaacta cggggttgtg 240  
 gagagcttca cagtgcagcg g 261

<210> 59  
 <211> 234  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
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 caccaagagg agtacgtgcg ctctgacagc gacgtggggg agtaccgggc ggtgacggag 120  
 ctggggcggc ctgatgccga gtactggaac agccagaagg acctcttga gcagaagcgg 180  
 gcccggttgg acacctactg cagacacaac tacgggggtt tggagagctt caca 234

<210> 60  
 <211> 225  
 <212> DNA  
 <213> Homo sapiens

<400> 60tgagtgtcat ttcttcaacg ggacggagcg ggtgcggttc ctggacagat acttctatca 60  
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 ggggcggcct gatgccgagt actggaacag ccagaaggac atcttgaag acgagcgggc 180  
 cgcggtggac acctactgca gacacaacta cggggttggg gagag 225

<210> 61  
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 <212> DNA  
 <213> Homo sapiens

<400> 61  
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 ggttcttga cagatacttc tatcaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcgggtgacg gagctggggc ggctgatga ggagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgggcggcgg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag 250

<210> 62  
 <211> 222  
 <212> DNA  
 <213> Homo sapiens

<400> 62  
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 accaagagga gtacgtgcgc ttgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tgatgccag tactggaaca gccagaagga cctcctggag cagaagcggg 180  
 ccgcggtgga cacctactgc agacacaact acggggttgg tg 222

<210> 63  
 <211> 221  
 <212> DNA  
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<400> 63  
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 accaagagga gtacgtgcgc ttgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tagcggcag tactggaaca gccagaagga cctcctggag cagagggcggg 180  
 ccgaggtgga cacctactgc agacacaact acggggttgg t 221

<210> 64  
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 <212> DNA  
 <213> Homo sapiens

<400> 64  
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 accaagagga gtacgtgcgc ttgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tgatgccag tactggaaca gccagaagga catcctggaa gacagggcggg 180  
 ccctggtgga cacctactgc agacacaact acggggttgg ggagagcttc acagtgca 238

<210> 65  
 <211> 266  
 <212> DNA  
 <213> Homo sapiens

<400> 65  
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 cctggacaga tacttctatc accaagagga gtccgtgcgc ttgacagcg acgtggggga 120  
 gtaccgggcg gtgacggagc tggggcggcc tgatgccag tactggaaca gccagaagga 180  
 cctcctggag cagagggcggg ccgcggtgga cacctactgc agacacaact acggggttgg 240  
 tgagagcttc acagtgcagc ggcgag 266

<210> 66  
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 <212> DNA  
 <213> Homo sapiens

<400> 66  
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 accaagagga gtccgtgcgc ttgacagcg acgtggggga gtaccgggcg gtgacggagc 120  
 tggggcggcc tgatgccag tactggaaca gccagaagga cctcctggag cagagggcggg 180  
 ccgaggtgga cacctactgc agacacaact acggggttgg tg 222

<210> 67  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 67  
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 agatacttct atcaccaaga ggagtccgtg cgcttcgaca gcgacgtggg ggagtaccgg 120  
 gcggtgacgg agctggggcg gcctgatgcc gagtactgga acagccagaa ggacctctg 180  
 gagcagaagc gggccgcggg ggacacctac tgcagacaca actacggggg tggtagagagc 240  
 ttcacagtg 249

<210> 68  
 <211> 246  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
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 gcggtgacgg agctggggcg gcctgatgcc gagtactgga acagccagaa ggacctctg 180  
 gagcagaagc ggggcccggg ggacaactac tgcagacaca actacggggg tggtagagagc 240  
 ttcaca 246

<210> 69  
 <211> 270  
 <212> DNA  
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<400> 69  
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 ggttctctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggcttagcgc cgagtactgg aacagccaga 180  
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 ttgtggagag attcacagtg cagcggcgag 270

<210> 70  
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 <212> DNA  
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 ttgtggagag cttcacagtg cagcggcgag 270

<210> 71  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

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 gacagatact tctatcacca agaggagtac gtgcgcttcg acagcgacgt gggggagtac 120  
 cgggagggtga cggagctggg gcggcctgat gccgagtact ggaacagcca gaaggacttc 180  
 ctggaagaca ggcgggcctt ggtggacacc tactgcagac acaactacgg ggttggagag 240  
 ag 242

<210> 72  
<211> 246  
<212> DNA  
<213> Homo sapiens

<400> 72  
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ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatac cgagtactgg aacagccaga 180  
aggacctcct ggagcagaag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtg 246

<210> 73  
<211> 260  
<212> DNA  
<213> Homo sapiens

<400> 73  
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ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
ctgtggagag cttcacagtg 260

<210> 74  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 74  
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gggagttccg ggcggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
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ttggtgagag cttcacagtg cagcggcgag 270

<210> 75  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 75  
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ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggcggtgatg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 76  
<211> 270  
<212> DNA  
<213> Homo sapiens

<400> 76  
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ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
gggagtaccg ggtggtgacg gagctggggc ggcctagcgc cgagtactgg aacagccaga 180  
aggacctcct ggagcagagg cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
ttggtgagag cttcacagtg cagcggcgag 270

<210> 77  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 77  
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 ggttcctgga cagatacttc taccaccaag aggagtacgt gcgcttcgac agcgacgtgg 120  
 gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggagcagagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcacagtg cagcggcgag 270

<210> 78  
 <211> 240  
 <212> DNA  
 <213> Homo sapiens

<400> 78  
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&lt;213&gt; Homo sapiens

&lt;400&gt; 97

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&lt;210&gt; 98

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 98

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&lt;210&gt; 99

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 99

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&lt;210&gt; 100

&lt;211&gt; 370

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270

&lt;210&gt; 116

&lt;211&gt; 254

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 116

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 117

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&lt;211&gt; 242

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

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&lt;210&gt; 120

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 126

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

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&lt;210&gt; 127

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

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&lt;210&gt; 128

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 128

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&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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&lt;210&gt; 130

&lt;211&gt; 370

&lt;212&gt; DNA



&lt;213&gt; Homo sapiens

&lt;400&gt; 130

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&lt;210&gt; 131

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 131

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&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 132

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&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 133

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&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 134

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&lt;210&gt; 135

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&lt;213&gt; Homo sapiens

&lt;400&gt; 135

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&lt;210&gt; 136

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 136

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&lt;210&gt; 137

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 137

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&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 139

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&lt;211&gt; 270

&lt;212&gt; DNA

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&lt;210&gt; 141

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 141

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&lt;210&gt; 142

&lt;211&gt; 266

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 142

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&lt;210&gt; 143

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 143

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 gttccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga 180  
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cgggcgggtga cggagctggg gcggcctgat gaggagtact ggaacagcca gaaggacatc 180  
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<212> DNA  
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ggggagttcc gggcgggtgac ggagctgggg cggcctgatg aggagtactg gaacagccag 180  
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 cgggcggtga cggagctggg ggcgcctgat gaggagtact ggaacagcca gaaggacctc 180  
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 gttccgggcg gtgacggagc tggggcggcc tgatgaggag tactggaaca gccagaagga 180  
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&lt;210&gt; 174

&lt;211&gt; 259

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 174

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cgggcggtga cggagctggg gcggcctgat gaggactact ggaacagcca gaaggacttc	180
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agcttcacag tgcagcggc	259

&lt;210&gt; 175

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 175

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gacctctgg aagacgagcg ggccgcggtg gacacctact gcagacacaa ctacgggggt	240
gtggagagct tcacagtga gcggcga	267

&lt;210&gt; 176

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 176

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ttggtgagag cttcacagtg cagcggcgag	270

&lt;210&gt; 177

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 177

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 gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga tgccgagtag 180  
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 <213> Homo sapiens

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gggagttccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga	180
aggacatcct ggaagacgag cgcgccgagg tggacaccta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcgg	266

&lt;210&gt; 198

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 198

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gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctag cgccgagtac	180
tggaacagcc agaaggacat cctggaagac aagcgggccg cgttgacac ctactgcaga	240
cacaactacg ggttgggtga gagcttcacg gtgcagcggc gag	283

&lt;210&gt; 199

&lt;211&gt; 262

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 199

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cgggcggtga cggagctggg gcggcctagc gccgagtact ggaacagcca gaaggacatc	180
ctggaagaca agcgggccgc ggtggacacc tactgcagac acaactacgg ggttgggtgag	240
agcttcacag tgcagcggcg ag	262

&lt;210&gt; 200

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctag cgccgagtac	180
tggaacagcc agaaggacat cctggaagac gagcgggccg cgttgacac ctactgcaga	240
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&lt;210&gt; 201

&lt;211&gt; 268

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 201

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gagttccggg cgttgacgga gctggggcgg cctgatgccg agtactggaa cagccagaag	180
gacttcttgg aagacaggcg ggcgcgggtg gacacctact gcagacacaa ctacgggggt	240
ggtgagagct tcacagtga cgcgcgag	268

&lt;210&gt; 202

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cggcctgatg ccgagtactg gaacagccag aaggacatcc tggaagacag gcgggcccgcg 180  
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<210> 203  
<211> 270  
<212> DNA  
<213> Homo sapiens

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gggagtaccg ggcggtgacg gagctggggc ggctgatgc cgagtactgg aacagccaga 180  
aggacttctt ggaagacagg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
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<211> 268  
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<212> DNA  
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taccgggccc tgacggagct ggggcggcct gatgccgagt actggaacag ccagaaggac 180  
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<212> DNA  
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gttcggggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga 180  
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<210> 207  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

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 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
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 ttgtgagag cttcacagtg ca 262

<210> 211  
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 <212> DNA  
 <213> Homo sapiens

<400> 211  
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 ggagctgggg cggcctgatg ccgagtactg gaacagccag aaggacttcc tggaagacag 180  
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<213> Homo sapiens

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<210> 213  
<211> 266  
<212> DNA  
<213> Homo sapiens

<400> 213  
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gttcggggcg gtgacggagc tggggcggcc tgatgccgag tactggaaca gccagaagga 180  
catcctggaa gacgagcggg ccgcgggtgga cacctactgc agacacaact acggggttgt 240  
ggagagcttc acagtgcagc ggcgag 266

<210> 214  
<211> 247  
<212> DNA  
<213> Homo sapiens

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ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga aggacatcct 180  
ggaagacgag cgggccgagg tggacaccta ctgcagacac aactacgggg ttgatgagag 240  
cttcaca 247

<210> 215  
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<212> DNA  
<213> Homo sapiens

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gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctga tgccgagtag 180  
tggaacagcc agaaggacat cctggaagac gagcgggccg cgggtggacac ctactgcaga 240  
cacaactac gggttgtgga gagcttcaca gtgcagcggc gag 283

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aggacttcct ggaagacagg cgggccctgg tggacaccta ctgcagacac aactacgggg 240  
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<210> 217  
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 <212> DNA  
 <213> Homo sapiens

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 cacaactacg gggttgtgga gagcttcaca gtgcagcggc gag 283

<210> 218  
 <211> 266  
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 <213> Homo sapiens

<400> 218  
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 gggagttccg ggcggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
 aggacctctt ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
 ttgtggagag cttcacagtg cagcgg 266

<210> 219  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 219  
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 gacagcgacg tgggggagtt ccgggcgggtg acggagctgg ggcggcctag cgccgagtac 180  
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<210> 220  
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 <213> Homo sapiens

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 tgggggagtt ccgggcgggtg acggagctgg ggcggcctga tgccgagtac tggaacagcc 180  
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<210> 221  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<400> 221

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 ggtgagagct tcacggtgca gcggc 265

<210> 222  
 <211> 265  
 <212> DNA  
 <213> Homo sapiens

<400> 222  
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 gagttccggg cggtagcgga gctggggcgg cctgatgccg agtactggaa cagccagaag 180  
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 gtggagagct tcacagtgc gcggc 265

<210> 223  
 <211> 249  
 <212> DNA  
 <213> Homo sapiens

<400> 223  
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 gggagtccg gccggtgacg gagctggggc ggcctgatgc cgagtactgg aacagccaga 180  
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<210> 224  
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 <212> DNA  
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 aggacatcct ggaagacgag cgggccgcgg tggacaccta ctgcagacac aactacgggg 240  
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<210> 226  
 <211> 248  
 <212> DNA

<213> Homo sapiens

<400> 226

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<210> 227

<211> 270

<212> DNA

<213> Homo sapiens

<400> 227

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aggacctcct ggaagacgag cgggccgagg tggacaccta ctgcagacac aactacgggg	240
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<210> 228

<211> 253

<212> DNA

<213> Homo sapiens

<400> 228

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gttcggggcg gtgacggagc tggggcggcc tagcggcgag tactggaaca gccagaagga	180
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<210> 229

<211> 269

<212> DNA

<213> Homo sapiens

<400> 229

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<210> 230

<211> 270

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<210> 231

<211> 246  
<212> DNA  
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<210> 233  
<211> 266  
<212> DNA  
<213> Homo sapiens

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<210> 234  
<211> 270  
<212> DNA  
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<210> 235  
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<212> DNA  
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<210> 236  
 <211> 245  
 <212> DNA  
 <213> Homo sapiens

<400> 236  
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&lt;211&gt; 270

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 276

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&lt;213&gt; Homo sapiens

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&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 278

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&lt;213&gt; Homo sapiens

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&lt;212&gt; DNA

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 gggagtcca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacatcct ggagcaggcg cgggcccgcg tggacaccta ctgcagacac aactacgggg 240  
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 agttccgggc ggtgacggag ctggggcggc ctgacgtga gtactggaac agccagaagg 180  
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 ggggagttcc gggcggtgac ggagctgggg cggcctagcg ccgagtactg gaacagccag 180  
 aaggacatcc tggagcaggc gcgggccggt gtggacacct actgcagaca caactacggg 240  
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 <211> 370  
 <212> DNA  
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 cagcggcgag 370

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 gaggaccggg cggtagcga gctggggcgg cctgacgtg agtactggaa cagccagaag 180  
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<210> 322  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 322



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 aagagggagt gtcatttctt caatgggacg gacggtgtgc ggttcctgga cagatacttc 180  
 tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
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 cagcggcgag 370

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 gtaccgggag gtgacggagc tggggcgccc tgacgtgag tactggaaca gccagaagga 180  
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 tataaccagg aggagtccgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggctgacgc tgagtactgg aacagccaga aggacctcct ggaagacagg 300  
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 cagcggcgag 370

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 <212> DNA  
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 gcggtgacgg agctggggcg gctgacgtg gactactgga acagccagaa ggacttctg 180  
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 cgggcggtga cggagctggg gcggcctgac gctgagtact ggaacagcca gaaggacatc 180  
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<210> 327  
 <211> 262  
 <212> DNA

<213> Homo sapiens

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gggagtaccg ggcggtgacg gagctggggc ggcttgacgc tgagtactgg aacagccaga	180
aggacatcct ggaagacagg cgcgccgagg tggacaccta ctgcagacac aactacgggg	240
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<211> 270

<212> DNA

<213> Homo sapiens

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gggagtaccg ggcggtgacg gagctggggc ggcttgacgc tgagtactgg aacagccaga	180
aggacttctt ggaagacagg cgcgccgagg tggacaccta ctgcagacac aactacgggg	240
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<211> 283

<212> DNA

<213> Homo sapiens

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gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctgt cgccgagtcc	180
tggaacagcc agaaggacct cctggagcag aagcggggcc gggtggacaa ttactgcaga	240
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<211> 370

<212> DNA

<213> Homo sapiens

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gagctggggc ggctgtcgc cgagtcttgg aacagccaga aggacctcct ggagcagaag	300
cggggccggg tggacaatta ctgcagacac aactacgggg ttggtgagag cttcacagtg	360
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<210> 331

<211> 264

<212> DNA

<213> Homo sapiens

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<212> DNA  
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gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctgt cgccgagtc 180  
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aggacctctt ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg	240
ttggtg	246

&lt;210&gt; 342

&lt;211&gt; 370

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 342

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gagctggggc ggctgatgc cgagtactgg aacagccaga aggacctctt ggagcagaag	300
cggggccagg tggacaatta ctgcagacac aactacgggg ttgtggagag cttcacagtg	360
cagcggcgag	370

&lt;210&gt; 343

&lt;211&gt; 283

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 343

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tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa ttactgcaga	240
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&lt;210&gt; 344

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 344

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&lt;210&gt; 345

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 345

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 tggaacagcc agaaggacct cttggagcag aagcggggcc aggtggacaa ttactgcaga 240  
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<210> 355  
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 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 355

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gacagcgacg tgggggagta ccgggcgggtg agggagctgg ggcggcctga tgccgagtac    180
tggaacagcc agaaggacat cctggagcag aagcggggcc aggtggacaa ttactgcaga    240
cacaactacg gggttggtga gagcttcaca gtcagcggc gag                        283

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&lt;210&gt; 356

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 356

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cacgtttctt gcagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc    60
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gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga    180
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg    240
ttggtgagag cttcacagtg cagcggcgag                        270

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&lt;210&gt; 357

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 357

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cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc    60
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gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga    180
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg    240
ttggtgagag cttcacagtg cagcggcgag                        270

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&lt;210&gt; 358

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 358

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gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga    180
aggacctcct ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg    240
ttgctgagag cttcacagtg cagcggcgag                        270

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&lt;210&gt; 359

&lt;211&gt; 270

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 359

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cacgtttctt ggagctgctt aagtctgagt gtcatttctt caatgggacg gagcgggtgc    60
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gggagtaccg ggcggtgagg gagctggggc ggctgatgc cgagtactgg aacagccaga    180
aggacctcct ggagcagaag cggggccagg tggacaccta ctgcagacac aactacgggg    240
ttggtgagag cttcacagtg cagcggcgag                        270

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&lt;210&gt; 360

&lt;211&gt; 270

&lt;212&gt; DNA



<213> Homo sapiens

<400> 360

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ggttcctgga gagacacttc cataaccagg aggagtacgc gcgttcgac agcgacgtgg	120
gggagtaccg ggcggtgagg gagctggggc ggctgtgc ggagcactgg aacagccaga	180
aggacctctt ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg	240
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<210> 361

<211> 270

<212> DNA

<213> Homo sapiens

<400> 361

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gggagtaccg ggcggtgagg gagctggggc ggctgtatgc cgagtactgg aacagccaga	180
aggacctctt ggagcagaag cggggccagg tggacaatta ctgcagacac aactacgggg	240
ttggtgagag cttcacagtg cagcggcgag	270

<210> 362

<211> 283

<212> DNA

<213> Homo sapiens

<400> 362

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gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctgt cgcgagtc	180
tggaacagcc agaaggacct cctggagcag aagcggggcc aggtggacaa ttactgcaga	240
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<210> 363

<211> 270

<212> DNA

<213> Homo sapiens

<400> 363

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gggagtaccg ggcggtgacg gagctggggc ggctgtgc cgagtcttgg aacagccaga	180
aggacctctt ggagcagaag cggggccagg tggacaatta ctgcagacac aactacggcg	240
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<210> 364

<211> 246

<212> DNA

<213> Homo sapiens

<400> 364

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gggagtaccg ggcggtgacg gagctggggc ggctgtgc cgagtcttgg aacagccaga	180
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ttgtgg	246

<210> 365

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 <212> DNA  
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<400> 365  
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 gtaccgggcg gtgacggagc tggggcggcc tgcgcgag tcctggaaca gccagaagga 180  
 cctctggag cagaagcggg gccgggtgga caattactgc agacacaact acgggggttg 240  
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<210> 366  
 <211> 370  
 <212> DNA  
 <213> Homo sapiens

<400> 366  
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 aagtgtgagt gtcatttct caatgggacg gagcgagtgt ggaacctgat cagatacatc 180  
 tataaccaag aggagtacgc gcgtacaac agtgacctgg gggagtacca ggcggtgacg 240  
 gagctggggc ggctgacgc tgagtactgg aacagccaga aggacctcct ggagcggagg 300  
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 cagcggcgag 370

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 <211> 220  
 <212> DNA  
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<400> 367  
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 aacagccaga aggacctcct ggagcggagg cgggccgagg tgggcaccta ctgcagatac 180  
 aactacgggg ttgtggagag cttcacagtg cagcggcgag 220

<210> 368  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 368  
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 aacagtgacc tgggggagta ccaggcgggtg acggagctgg ggcggcctga cgctgagtac 180  
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<210> 369  
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 <213> Homo sapiens

<400> 369  
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 aagtgtgagt gtcatttct caatgggacg gagcgagtgt ggaacctgat cagatacatc 180  
 tataaccaag aggagtacgc gcgtacaac agtgacctgg gggagtacca ggcggtgacg 240

gagctggggc ggcctgacgc tgagtactgg aacagccaga aggacctct ggagcggagg 300  
 cgggccgagg tggacaccta ttgcagatac aactacgggg ttgtggagag cttcacagtg 360  
 cagcggcgag 370

<210> 370  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

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 gggagtacca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacctctt ggagcggagg cgggccgagg tggacaccta ctgcagatac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 371  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 371  
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 gggagtacca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacctctt ggagcggagg cgggccgagg tggacaacta ctgcagatac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 372  
 <211> 242  
 <212> DNA  
 <213> Homo sapiens

<400> 372  
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 caggcgggtga cggagctggg ggcgcctgac gctgagtact ggaacagcca gaaggacctc 180  
 ctggagcggga ggcggggcca ggtggacacc tactgcagac acaactacgg ggttgtggag 240  
 ag 242

<210> 373  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

<400> 373  
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 ggaacctgat cagatacatc tataaccaag aggagtacgc gcgctacaac agtgacctgg 120  
 gggagtacca ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacctctt ggagcggagg cgggccgagg tggacaccta ctgcagatac aactacgggg 240  
 ttgtggagag cttcacagtg cagcggcgag 270

<210> 374  
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 <212> DNA  
 <213> Homo sapiens

<400> 374  
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aggagtacgc gcgctacaac agtgacctgg gggagtacca ggcggtgacg gagctggggc 180  
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<210> 375  
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 <212> DNA  
 <213> Homo sapiens

<400> 375  
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 tataaccaag aggaggactt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
 gagctggggc ggcttgacgc tgagtactgg aacagccaga aggacttctt ggaagacagg 300  
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 cagcggcgag 370

<210> 376  
 <211> 257  
 <212> DNA  
 <213> Homo sapiens

<400> 376  
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 gggagtaccg ggcggtgacg gagctggggc ggcttgacgc tgagtactgg aacagccaga 180  
 aggacttctt ggaagacagg cgggccgagg tggacaccta ctgcagacac aactacgggg 240  
 ttggtgagag cttcaca 257

<210> 377  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

<400> 377  
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 gacagcgacg tgggggagta ccgggcggtg acggagctgg ggcggcctga cgctgagtac 180  
 tggaacagcc agaaggactt cctggaagac aggcgcgccc cgttgagacac ctactgcaga 240  
 cacaactacg gggttggtga gagcttcaca gtgcagcggc gag 283

<210> 378  
 <211> 250  
 <212> DNA  
 <213> Homo sapiens

<400> 378  
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 cgggcggtga cggagctggg gcggcctgac gctgagtact ggaacagcca gaaggacttc 180  
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 agcttcacag 250

<210> 379  
 <211> 283  
 <212> DNA  
 <213> Homo sapiens

&lt;400&gt; 379

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acggagcggg tgcggttctt gcacagagac atctataacc aagaggagga cttgcgttc	120
gacagcgacg tgggggagta ccgggcgggtg acggagctgg ggcggcctga cgtgagtac	180
tggaacagcc agaaggactt cctggaagac aggcggggccc tggtgacac ctactgcaga	240
cacaactacg gggttggtga gagcttcaca gtgcagcggc gag	283

&lt;210&gt; 380

&lt;211&gt; 267

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<400> 380ccacgtttct tgcagcagga taagtatgag tgtcatttct tcaacgggac ggagcgggtg	60
cggttcctgc acagagacat ctataacaa gaggaggacg tgcgttcga cagcagctg	120
ggggagtacc gggcgggtgac ggagctgggg cgccctgacg ctgagtactg gaacagccag	180
aaggacttcc tggaagacag gcgcgcgcgc gtggacacct actgcagaca caactacggg	240
gttggtgaga gcttcacagt gcagcgg	267

&lt;210&gt; 381

&lt;211&gt; 269

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 381

cacgtttctt gcagcaggat aagtatgagt gtcatttctt caacgggacg gagcgggtgc	60
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aggacatcct ggagcaggcg cgggcgcgcg tggacaccta ctgcagacac aactacgggg	240
ctgtggagag cttcacagtg cagcggcga	269

&lt;210&gt; 382

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 382

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ggttcttgca cagagacatc tataaccaag aggaggactt gcgcttcgac agcagctgg	120
gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga	180
aggacatcct ggaagacagg gcgcgcgcgc tggacaccta ctgcagacac aactacgggg	240
ttggtg	246

&lt;210&gt; 383

&lt;211&gt; 246

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 383

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gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga	180
aggacttctt ggaaaacagg gcgcgcgcgc tggacaccta ctgcagacac aactacgggg	240
ttggtg	246

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 <211> 268  
 <212> DNA  
 <213> Homo sapiens

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 gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
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 ggtgagagct tcacagtgc ggcgcgag 268

<210> 385  
 <211> 270  
 <212> DNA  
 <213> Homo sapiens

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 gggagtaccg ggcggtgacg gagctggggc ggcctgacgc tgagtactgg aacagccaga 180  
 aggacatcct ggagcaggcg cgggcgcggg tggacaccta ctgcagacac aactacgggg 240  
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 <213> Homo sapiens

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<210> 387  
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 tataaccaag aggagaacgt gcgcttcgac agcgacgtgg gggagtaccg ggcggtgacg 240  
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 cagcggcgag 370

<210> 388  
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 <212> DNA  
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<400> 388  
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 gtaccgggcg gtgacggagc tggggcggcc tgacgtgag tactggaaca gccagaagga 180

catcctggag caggcgcggg ccgcggtgga cacctactgc agacacaact acgggggttg 240  
tgagagcttc acagtgcagc gg 262

<210> 389  
<211> 257  
<212> DNA  
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gggagtaccg ggcggtgacg gagctggggc ggctgacgc tgagtactgg aacagccaga 180  
aggacttctt ggagcaggcg cgggcgcggg tggacaccta ctgcagacac aactacgggg 240  
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<210> 391  
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<212> DNA  
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<400> 391  
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<210> 392  
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<212> DNA  
<213> Homo sapiens

<400> 392  
gcggttgctg gaaagat 17

<210> 393  
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<400> 393  
ctataaccaa gaggagtc 18

<210> 394  
<211> 15  
<212> DNA  
<213> Homo sapiens

<400> 394  
ctggggcggc ctgat

15

<210> 395  
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<400> 395  
gggcggcctg atgcc

15

<210> 396  
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<212> DNA  
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<400> 396  
cacaactacg gggttgg

17

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<212> DNA  
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<400> 397  
catctataac caagaggaa

19

<210> 398  
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<212> DNA  
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<400> 398  
cgcggtggac acctat

16

<210> 399  
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&lt;213&gt; Homo sapiens

&lt;400&gt; 113

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&lt;210&gt; 114

&lt;211&gt; 1067

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 114

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&lt;210&gt; 115

&lt;211&gt; 945

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 115

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<210> 118  
 <211> 949  
 <212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 118

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ctgaggaatg gacagtggcc cagtctcca gagctcagac ctggccatg aacgtcagga      420
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&lt;210&gt; 119

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 119

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&lt;210&gt; 120

&lt;211&gt; 1067

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 120

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<210> 121  
 <211> 1067  
 <212> DNA  
 <213> Homo sapiens

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<210> 122  
 <211> 1064  
 <212> DNA  
 <213> Homo sapiens

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<400> 122
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<210> 123  
 <211> 1067  
 <212> DNA  
 <213> Homo sapiens

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 gcctgcaggt cctggatcaa caccagttg ggacagtgga ccacaggat gccacacagc 1020  
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<210> 124  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

<400> 124  
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 gcctgcagga actacggcga tatctaaaat ccggcgtagt cctgaggaga acagtgcgcc 540  
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 aggtcctgga tcaacacca gttgggacga gtgaccacag ggatgccaca cagctcggat 1020  
 ttcagcctct gatgtcagat ctgggtcca ctggctccac t 1061

<210> 125  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<400> 125  
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&lt;210&gt; 126

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

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&lt;210&gt; 127

&lt;211&gt; 812

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

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&lt;210&gt; 128



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 <212> DNA  
 <213> Homo sapiens

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<210> 129  
 <211> 1064  
 <212> DNA  
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aagaaggett gcattccctc egggagatta gggctctgtga gatccatgaa gacaacagca 300  
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<210> 131  
 <211> 1061  
 <212> DNA  
 <213> Homo sapiens

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 gagacttgac agggaaacga aaggacctca ggtgacctt ggctcatatc aaggaccaga 240  
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 aggtcctgga tcaacacca gttgggacga gtgaccacag ggtatgccaca cagtcggat 1020  
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<210> 132  
 <211> 997  
 <212> DNA  
 <213> Homo sapiens

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 gggacttgac agggaaacga aaggacctca ggtgacctt ggctcatatc aaggaccaga 240  
 aagaaggett gcattccctc caggagatta gggctctgtga gatccatgaa gacaacagca 300  
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 gccacgacac ccagcagtgg ggggatgtcc tgctgatgg gaatggaacc taccagacct 720  
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<210> 133  
 <211> 963  
 <212> DNA  
 <213> Homo sapiens

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 <211> 813  
 <212> DNA  
 <213> Homo sapiens

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 <211> 813  
 <212> DNA  
 <213> Homo sapiens

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<210> 136  
<211> 920  
<212> DNA  
<213> Homo sapiens

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<210> 137  
<211> 813  
<212> DNA  
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 <212> DNA  
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 <211> 951  
 <212> DNA  
 <213> Homo sapiens

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 <213> Homo sapiens

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&lt;210&gt; 141

&lt;211&gt; 920

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 141

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&lt;210&gt; 142

&lt;211&gt; 945

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 142

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&lt;210&gt; 143

&lt;211&gt; 813

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 143

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&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 144

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&lt;213&gt; Homo sapiens

&lt;400&gt; 146

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&lt;211&gt; 813

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&lt;213&gt; Homo sapiens

&lt;400&gt; 152

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 <213> Homo sapiens

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&lt;211&gt; 951

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 160

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&lt;210&gt; 161

&lt;211&gt; 1064

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 161

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